

Year 11 Autumn Term Knowledge organiser

Name:		
Tutor		

Tutor group:

Tutor room:

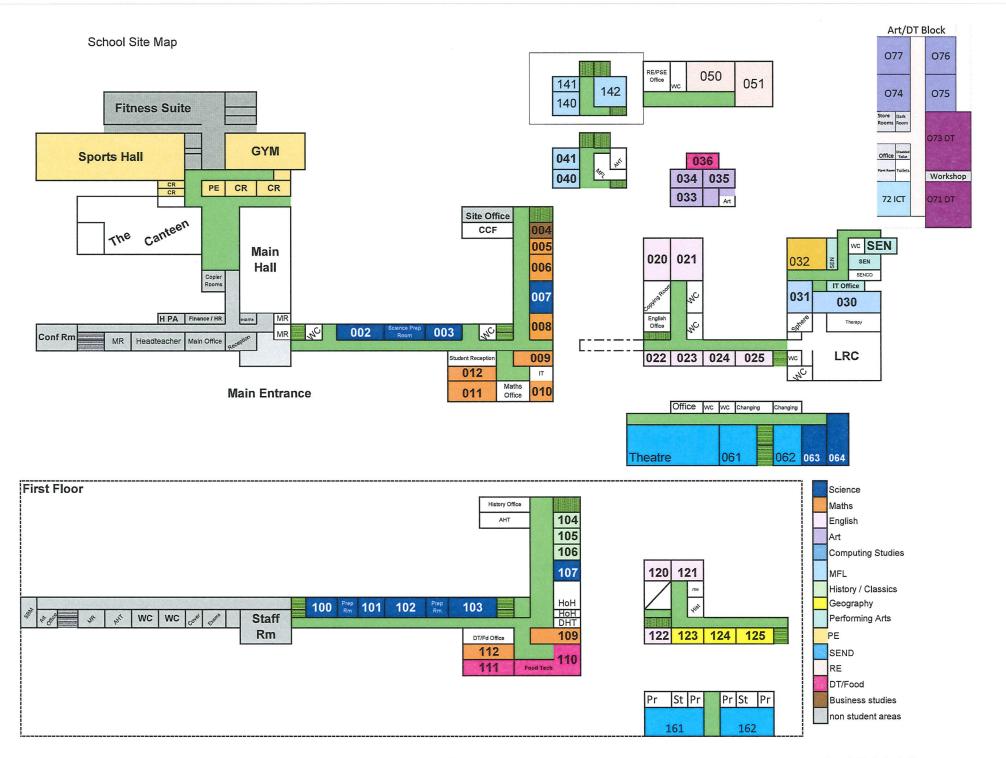
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Key School information

Times of the school day		
8.00am – 8.30am	Breakfast in canteen	
8.35am	Pre-lesson 1 bell	
8.40am-9.30am	Lesson 1	
9.30am-10.20am	Lesson 2	
10.20am-10.40am	Morning break	
10.40am-11.30am	Lesson 3	
11.30am-12.20pm	Lesson 4	
12.20pm-1.00pm	Lunch	
1.00pm-1.20pm	Tutor time / Assembly	
1.20pm-2.10pm	Lesson 5	
2.10pm-3.00pm	Lesson 6	
3.00pm-4.00pm	Extended learning and	
	extra-curricular clubs	

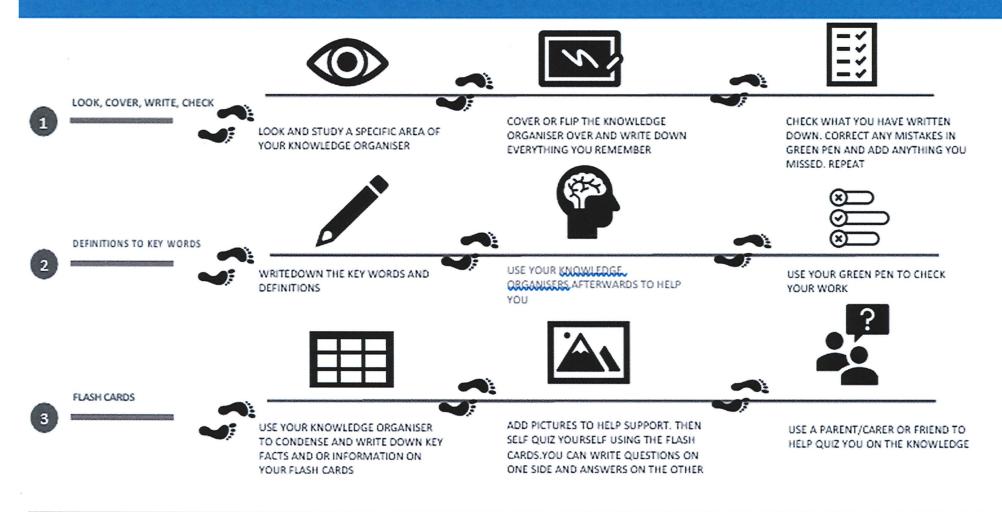
Term dates		
Autumn term	Y7 : 04/09/23 to 15/12/23	
	Y8-11 : 05/09/23 to 15/12/23	
Half term	23/10/23 to 27/10/23	
Spring term 03/01/24 to 28/03/24		
Half term	12/02/24 to 16/02/24	
Summer term	15/04/24 to 19/07/24	
Half term	27/05/24 to 31/05/24	

Important IT details	
Username	
Password reminder	



How to use Knowledge Organisers – a step by step guide

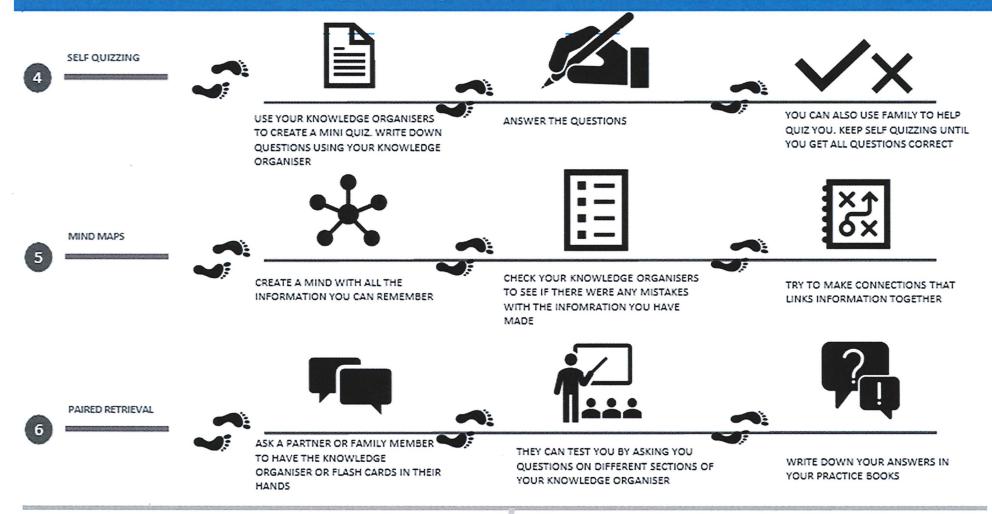
Knowledge organisers contain critical knowledge you must know. This will help you recap, revisit and revise what you have learnt in lessons in order to remember this knowledge for the long term. You must have this for every lesson – it is part of your equipment.



KNOWLEDGE ORGANISERS ARE ALSO AVAILABLE ON THE SCHOOL'S WEBSITE: https://www.ashmanorschool.com/

How to use Knowledge Organisers - a step by step guide

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Fabian Strategy

Dictator – A Roman who was elected to hold all power over the army for 6 months in times of national crisis.

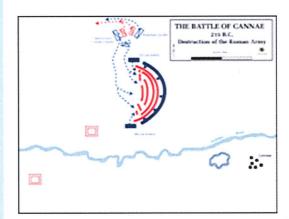
Fabius Maximus' dictatorship —
Fabius was elected dictator after the disaster for the Romans at Trasimene.
Fabius followed Hannibal's army wherever he went, without directly engaging him in battle; instead, he attacked Hannibal's raiding parties and cut off Hannibal's supply lines.
This was unpopular with the Romans who eventually removed his power.

Consequences of Fabian Strategy — Fabius' time as dictator had allowed Rome time to rebuild after the disaster at Trasimene. Enough men for eight legions were assembled (around 40,000 troops), and together it was the largest army Rome had ever seen.

Plutarch, Parallel Lives: Life of Fabius Maximus - Plutarch was a Roman biographer (someone that tells the story of people's lives) who lived c. AD 46-120. His aim was not to be historically accurate but to examine what the actions of historical individuals revealed about their character and personality. His focus was Fabian strategy and portraying Fabius as the 'saviour of Rome'.

Year 11 Ancient History: Term 1

The Second Punic War / Periclean Athens



Battle of Cannae – A battle fought between Hannibal troops and the Roman army led by consuls Varro (who was keen to engage Hannibal in battle) and Paullus (who thought it was a bad idea). At Cannae, Hannibal used a 'crescent moon formation' to surround the Roman troops. Livy describes a massacre.

Roman strategy
after Cannae – The
Romans returned to
Fabian Strategy. This
gradually wore
Hannibal and his
army down over the
next decade.

Scipio 'Africanus' – The son of Publius Cornelius Scipio. He volunteered to take over his father's command in Spain (Iberia) and defeated Hannibal at Zama.

Hannibal's mistake – According to Livy, Hannibal's biggest mistake was failing to march on Rome after the Battle of Cannae, which would eventually lose him the war. Capture of New Carthage
(Carthago Nova) — By using
the type of tactics which he
had previously observed
Hannibal using, Scipio used
local knowledge of the area
to realise that when the
tide was low, he could cross
the seabed to surround
New Carthage from behind.
Carthage lost their Spanish
stronghold.

Why Hannibal lost the Second Punic War

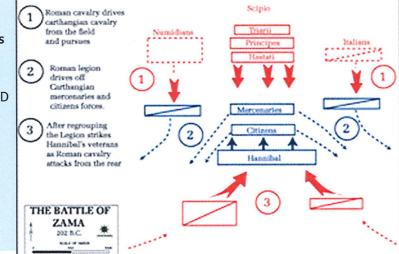
Numidians – On his way back to Rome, Scipio met with the Numidian princes Syphax and Masinissa in Africa. Masinissa, seeing that Rome was likely to win the second Punic War.

Alliance with the

Battle of Zama (202) – Rome had a superior cavalry (6,000, including Numidians) and an experienced infantry (29,000). Hannibal had more men in his army (36,000), but most were new and lacked experience.

When the Carthaginian elephants charged, the Romans moved into columns and attacked the elephants from the side while blowing their horns to scare the elephants.

The Numidians chased off Hannibal's veteran cavalry, before returning and surrounding the Carthaginian army.



Peace Terms for Carthage:

- 1. 10,000 talents to Rome
- 2. 10 warships
- 3. No elephants
- 4. Permission needed from Rome to go to war

The Strategoi / Generals

Specific magistrates. The ten
Athenian generals who
assembled armies. This was the
only archon who was elected
each year, and the most
powerful position in the
Athenian state.

Areopagus

Traditionally, a council of the wealthiest citizens of Athens who had previously held ultimate control of the legal system, this changed under Ephialtes who limited their power to murder cases and offences against the gods.

Ostracism – An annual vote to banish one important citizen for ten years. It was meant to stop any individuals from becoming too powerful. Cimon and Thucydides of Alopece (both enemies of Pericles), were ostracised.

Periclean building programme – Pericles' plan to beautify Athens with new buildings, using the money of the Delian League to do so. His friend, Pheidias played a large role in the design of these buildings and sculptures.

Archons / Magistrates

Applied the laws decided by the people.

They were chosen randomly.

Boule / Council

A randomly-selected advisory body of 500 men (50 from each tribe) which prepared business for the assembly and oversaw the day-to-day running of the citv.

Jury

The group of Athenian citizens (selected randomly, by lot) who would decide in the law courts whether someone was guilty or innocent of the crime that they had been accused of.

Sculpture of Athena Promachos – Built before the building programme began by the sculptor Pheidias. Pausanias said that the statue was so large that the tip of its spear and the top of the helmet could be seen miles away from the tip of Attica.

Erechtheion – Temple of Athena and Poseidon which housed the olive-wood statue of Athena Polias ('defender of the city'). Work on it did not end until after Pericles' death. This was the most famous statue of Athena in Attica.

Propylaea – It was a monumental gateway to the Acropolis which took five years to build. It was made of marble and had a dark blue ceiling which was studded with

golden stars.

Odeon – A large concert hall built next to the theatre of Dionysus.

The Parthenon ('Athena the maiden') — A huge temple dedicated to the goddess Athena. It was an extremely large temple by normal Greek standards and was designed to house Pheidias' new sculpture of Athena Parthenos. Importantly, it served as the treasury of Athens and Pericles later moved the Delian Treasury (money collected from member of the Delian League) there.

The Ekklesia / Assembly

A formal meeting of the people, which was open to any citizen.

Located on the Pnyx Hill, it passed laws and elected public

officials.

Deme

A group of citizens who were placed together for administrative purposes into 10 tribes.

Tribe

A village or district of Athens. Several demes from across Athens made one tribe. Demes would put forward their young men to become citizens. Citizenship Law – Pericles' reform said that Athenian citizens had to have an Athenian mother and father whose parentage could be traced back. Anyone who falsely claimed they were a citizen was sold into slavery.

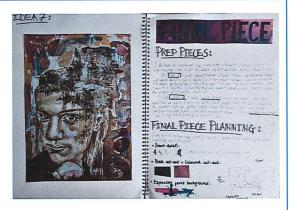
Criticisms of the Programme – The main criticism of the programme was that it used funds from the Delian League which was meant to be for the protection of the city states against another Persian invasion. It was seen as an example of Athenian Imperialism (wanting an empire).

Art

Words to help you critique artwork:

Tone:
subtle
contrasting
muted
flat
light
dark
dramatic
depth
shadowy

Line:
delicate
simple
bold
thick
thin
fine
vertical
horizontal
flowing



Final piece planning

I have done the following:

- ✓ Sketched what my final piece will look like
- ✓ Experimented with the techniques
- Added labels to show different techniques
- ✓ Included colour where appropriate
- ✓ Annotated with a statement of intent to show where my idea has come from

Movement: swirling flowing gentle rippling sudden stillness

rhythm

dynamic

Colour:
bold
vibrant
vivid
cool
warm
subtle
pale
earthy

Shape:
organic
curvaceous
circular
geometric
angular
irregular

GCSE Assessment objectives - you will be marked on each for your coursework			
AO1	AO2	AO3	AO4
Develop your ideas through investigating artists, designers and other appropriate sources. Demonstrate critical understanding of sources.	Refine your work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes.	Record your ideas, observations and insights that are relevant to your project intentions as work progresses. Annotate work and include drawings within your sketchbook.	Present a personal and meaningful response that realises your project intentions and demonstrates understanding of visual language.

Statement of intent

- What are you planning to do?
- Why are you planning to this? where has the idea come from?
- What techniques are you going to use?
- · What have you been influenced by?
- How does the idea link to artists and designers that you've researched?

Annotation checklist

What have you done?
How have you done it?
What inspired you?
What else did you try?
Why was it successful?
Is there anything you would change/need to do now?

Sketchbook presentation

I have done the following:

- Used appropriate colours in the background, title and writing.
- ✓ Used appropriate font for the title.
- ✓ Considered the layout of my page before sticking it down.
- ✓ Creatively laid out my work on the page – e.g. used flaps, layered work, used a window, mounted the work



GCSE Business – Theme 1 / Paper 1 Building a business

Why new business ideas come about:

- Changes in technology. New technology can often improve products and make them more desirable.
- Changes in consumer needs. Fashions and tastes are always changing. This affects clothes, cars etc. but also peoples lifestyles, and trends such as healthy eating and fitness. Businesses must adapt to meet these trends.
- Products becoming obsolete. Products become outdated overtime and new products are introduced. For example, DVD rental became obsolete as a result of streaming services.

How do new ideas come about?

- Original ideas Entrepreneurs need to be creative to come up with new completely new ideas. Many new ideas are not successful but successful ones can completely change the market. E.g. Ipads, Tesla cars, Dyson Vacuums
- Adapting existing products Easier than a completely new idea (80% of new products fail!). This can involve small changes (think of all the different design fidget spinners) or new versions of an existing brand – Coke Zero Cherry, Dairy Milk Bubbly, Giant Crumpets, newest James Bond film.

Sources of finance

Short-term

- Trade credit (an agreement with suppliers to pay later)
- Overdraft

Long-term

- Bank loan (must be paid back to the bank with interest)
- Personal savings
- Share capital
- Venture capital
- Retained profit (profit the owner(s) decide to re-invest in the business)
- Crowd funding

Risks and rewards of starting a business

Rewards

waius

- * Business success
- * Profit
- * Independence

Risks

- * Business failure
- * Financial loss
- * Lack of security

Types of business ownership

Sole trader - an individual owning the business on their own.

- + Sole trader keeps all the profit
- + Sole trader makes all of the decisions
- Sole trader has unlimited liability
- Making all the decisions can be stressful

Partnership - Started and owned by more than one person

Partnerships can have limited or unlimited liability.

- + Owners may have wider expertise and can share ideas and decision-making.
- + Owners share the risk
- Profits have to be shared
- Partners may disagree and decision-making can take longer as a result

Private limited company – a company is formed when a business is set up to have a separate legal identity from its owners. Owners are now known as shareholders. Private limited companies have Ltd. after their name.

- + Has limited liability
- + It is easier for a Ltd. company to get a loan than it is a sole trader
- More complex to set up than a sole trader and more expensive because of all the legal paperwork.
- Accounts have to be published every year

Franchising – a franchise is like buying a ready-made business in a box. An entrepreneur can set up their own business using the name, equipment and products of the franchise.

- + Brand image and reputation is already established.
- + May have an established customer base.
- + The franchisee benefits from national advertising campaigns.
- The franchisee will have to pay a fee or a percentage of sales revenue to the franchisor.
- The franchisee has little freedom to make decisions.

Market Segmentation

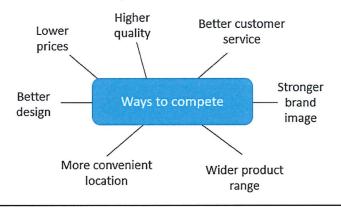
Market segmentation involves dividing a market into parts that reflect different customer needs and wants.

Market segments that businesses use to help them market effectively to their target customers include:

- * location * demographics
- * behaviour * lifestyle
- * income
- * age.

Competition

Competition affects how businesses make decisions. To stand out in a competitive environment, businesses need to make decisions that will persuade customers to buy from them, rather than their competitors. When making these decisions, the business might look at the strengths and weaknesses of its competitors.



The Business plan

The purpose of planning business

- 1. Minimising risk Setting up a business involves risk, such as the potential loss of invested money and time. A business plan can help to minimise risk, but it will not eliminate risk. Risk can be reduced by:
- very detailed planning that makes the entrepreneur think through the issues that may arise
- setting clear objectives and aims to help provide direction when making business decisions
- conducting market research to help inform decision-making
- making financial forecasts so that the entrepreneur can set budgets and monitor spending
- using a cash flow forecast to identify times when there may be a negative cash balance and to plan for this in advance (e.g. an overdraft).
- 2. Obtaining finance If an entrepreneur is trying to raise finance from a bank, such as a bank loan, the bank manager would review their business plan before granting the loan in order to see how the entrepreneur intends to repay the money.

GCSE Business – Theme 2 / Paper 2 Growing a business

Business growth

A business grows when it sells more output over a period of time. Business growth is often an important objective because it may:

• Help to increase market share • Lead to lower costs • Result in more profit

There are 2 different approaches to growth:

1. Internal (organic) growth

Internal growth occurs when a business expands by itself, by bringing out new products or by entering new markets.

2. External (inorganic) growth

A faster way for a business to grow is for it to join forces with another.

- Merger where two or more businesses voluntarily agree to join up and work as one business.
- > Takeover where one business buys another.

Financing growth – External sources of finance

Loan capital

A long-term bank loan can be secured against the business's assets, but interest will be charged and the business will have to make fixed repayments to repay the debt.

Share capital

A PLC can raise considerable capital by selling shares. However, selling shares puts PLCs at risk of being taken over and all shareholders are also entitled to a share of the profits through dividends.

Public limited company (PLC)

'Public' means that shares in the company are traded on a stock market, and can be bought and sold by anyone.

Advantages

- ✓ Much more capital can be raised than any other kind of business.
- ✓ This helps the business to expand and diversify.
- ✓ PLCs have limited liability so if things go wrong, the owners only lose the amount of money they've invested.

Disadvantages

- x It can be hard to get lots of shareholders to agree on how the business is run.
- x Someone could buy enough shares to take over the company if they can convince shareholders to sell.
- x The accounts have to be made public so everyone (including competitors) can see if a business is struggling.
- x PLCs can have hundreds or even thousands of shareholders so there are lots of people wanting a share of the profits.

Average rate or return (ARR): $\frac{average\ yearly\ profit}{sum\ invested} \times 100$

(Sum invested: the cash put at risk when investing in new equipment or a new product.)

Gross profit margin: $\frac{Gross\ profit}{Revenue} \times 100$ Net profit margin: $\frac{Net\ profit}{Revenue} \times 100$

Calculate Gross profit and Net profit

Revenue

- Cost of sales

- Gross profit

<u>t</u>

Sales revenue £625 000

Cost of sales £145 000

Other operating expenses and interest £200 000

Gross profit = £625 000 - £145 000 Gross profit = £480 000

Net profit = £480 000 - £200 000 Net profit = £280 000

Business and globalisation



Globalisation is where businesses operate internationally and gain a lot of influence or power.

Globalisation affects businesses in three main ways:

Imports

Globalisation allows businesses to import products and raw materials at lower prices than they would be able to produce them for in the UK. However, importing increases competition from foreign businesses that are able to sell directly to UK customers.

Exports

Exporting opens up new international markets for businesses and gives them the potential to grow. However, operating in international markets can be very different to operating in the UK and businesses may face problems if they lack the necessary expertise or knowledge.

Location

Globalisation brings with it the opportunity for businesses to relocate operations to other countries. This may be to benefit from lower labour costs, to be closer to raw materials or to be closer to the markets to which they sell their products.

Gross profit

- (Other operating expenses and interest)

= Net profit

COMPUTING YEAR 11 AUTUMN 2 1.4 NETWORK SECURITY

	FORMS OF ATTACK
Malware	Software written in order to infect computers and commit crimes e.g. fraud or identify theft. Malware exploits vulnerabilities in software
Types of Malware	Malware is term that covers (among other things) viruses, trojans, worms, ransomware, spyware and adware
Phishing	Online fraud technique used by criminals. It is designed to get you to give away personal information such as usernames, passwords, bank details, credit card details Achieved by disguising as a trustworthy source in an electronic communication, e.g. an email or fake website.
Brute Force Attack	A trial and error method used to decode encrypted data (such as passwords). Uses every combination until it hits upon the correct one.
DOS Attack	Denial of Service attack. Floods a server with useless traffic causing the server to become overloaded and unavailable
DDOS Attack	Distributed Denial of Service Attack. Using multiple computers (zombies) in a Botnet to undertake a DOS attack
Data Interception and Theft	Stealing information from an unknowing victim's computer in order to get confidential information, or to compromise their privacy. E.g. to sniff usernames and passwords
SQL Injection	A technique used to view or change data in a database by inserting additional code into a text input box, creating a different SQL command

	THREATS POSED TO NETWORKS	
Malware	Files are deleted, become corrupt or are encrypted.	
	Computers crash, reboot spontaneously and slow down.	
	Internet connections become slow.	
	Keyboard inputs are logged and sent to hackers.	
Phishing	Accessing a victim's account to withdraw money, or purchase merchandise and services.	
	Open bank accounts, credit cards, cashing illegitimate cheques.	
	Gain access to high value corporate data.	
	Financial services can blacklist the company	
Brute Force	Theft of data.	
Attack	Access to corporate systems.	
(D)DOS Attack	Loss of access to a service for customers	
	Lost revenue	
	Lower productivity	
	Damage to reputation	
Data	Usernames and passwords compromised	
Interception and	Disclosure / theft of corporate data	
Theft		
People	Most are caused by people being careless	

IDENTIFYING AND PREVENTING VULNERABILITIES		
Malware	Security software (Spam filter, Anti-virus, Anti-spyware, Anti-spam)	
	Enabling OS and security software updates.	
	Staff training	
	Backup files regularly onto removable media.	
Phishing	Strong security software.	
	Staff training: awareness of spotting fake emails and websites.	
	Staff training: not disclosing personal or corporate information.	
	Staff training: disabling browser pop-ups.	
Brute	Network lockout policy, Using progressive delays.	
Force	Staff training	
Attack		
(D)DOS	Strong firewall and packet filtering	
Attack	Properly configuring servers and auditing and monitoring systems	

COMPUTING YEAR 11 AUTUMN 2 1.5 SYSTEM SOFTWARE

	DEFINITIONS
Systems Software	Systems Software is the software used to control the hardware of the computer. It is contrasted to application software which is used to enable the user to perform tasks and create content and products
Operating System	An operating system is a piece of system software that communicates with the hardware of the computer and allows other programs to run. It is comprised of system software, or the fundamental files your computer needs to boot up and function
Peripherals	Peripherals are controlled by software called device drivers. Standard drivers (mouse and keyboard) are included in the operating system, however more specialist peripherals may need drivers programmed by the manufacturer which convert signals into machine code and are installed separately
Utility Software	Utilities are programs that are installed to perform a specific function, usually to improve the efficiency or security of a computer system

	TYPES OF INTERFACE
GUI	A Graphical User Interface provides windows, icons, menus, (mouse or other) pointer Sometimes calls WIMP. It is visual, interactive, and intuitive. Optimised for mouse/touch input
CMD	A Command Line Interface is text based. It uses less resources than a GUI. It is more efficient but harder to learn. Often repetitive processes can be automated with scripts
Menu	A Menu Interface presents successive menus to the user with options to choose at each stage. Often used with buttons on a keypad. (Think calculator when you press the 'MENU' button)

	FUNCTION OF THE OPERATING SYSTEM
What does an Operating system do?	An operating system manages all of the software and hardware on the computer. Most of the time, there are several different computer programs running at the same time, and they all need to access your computer's central processing unit (CPU), memory, and storage. The OS co-ordinates this activity
Interaction	A user interacts with the computer by means of an interface provided by the operating system

FEATURES OFTEN PROVIDED BY AN OPERATING SYSTEM			
Multitasking	Multitasking Running multiple applications at the same time by giving		
	each application a small time-slice of processor time. This		
	allows more than one program to be held in memory at a		
	time, and data shared between them such as copy and		
	paste. It also enables you to listen to music on your PC at the		
	same time as word processing for example		
Memory	When programs are loaded, the operating system decides		
Management	where they are held in memory. Over time the memory		
	becomes fragmented as programs are loaded and closed		
	because they use different amounts of memory. The		
	operating system must keep track of different program		
	fragments. When the memory is full, the operating system		
	uses virtual memory		
Device Drivers	Translates operating system instructions into commands		
	that the hardware will understand. Each peripheral will need		
	a device driver and many common ones are built into the		
	Operating System		
User Management	Providing for different users to log into a computer. The		
	operating system will retain settings for each user, such as		
	icons, desktop backgrounds etc. Each user may have		
	difference access rights to files and programs. A client server		
	network may impose a fixed or roaming profile for a user,		
	and manage login requests to the network.		
File Management	Data is stored in files. An extension to the filename tells the		
	operating system which application to load the file into. Files		
	can also be placed in folders for ease of organising		

	EXAMPLES OF UTILITY SOFTWARE	
Encryption Encryption utilities use an algorithm to scramble plain text into cipher text. It can be decrypted and read again with a Key		
Defragmentation Defragmentation utilities reorganise files on a hard disk, putting fragments of files back together, and it collects together free space. This reduces the movement of a read/write head across the surface of the disk, which speeds up file access. Solid state drives should not be defragmented (it is unnecessary as they have no moving parts. It also reduces their lifespan)		
Compression	Compression utilities reduce the size of a file so that it takes up less space, and is quicker to download/upload.Compressed files must be extracted before they can be read. Compression is lossy or lossless	
Backup utilities take a copy of the data and place it elsew (disks, tapes, cloud, etc.). Backups can be either full (bac everything) or incremental (back up changes since the la backup).		

Dance Component Two: Section A Knowledge Organiser

HYPOTHETICAL CHOREOGRAPHY

THE QUESTIONS WILL BE STRUCTURED LIKE THIS

Section A – Knowledge and understanding of choreographic processes and performing skills

You must answer all questions in this section.

37.5% (30 marks) - you should spend about 30 minutes on this section.

You are choreographing a group dance for two dancers using the image below as a stimulus.

All answers in questions 1-7 must relate to this stimulus.

What will the question ask?

The question will give you a stimulus. This could be an image, text, an object, and idea.

You will be asked for a dance idea/choreographi c intent based on this stimulus.

You will then be asked a range of questions about how you might choreograph a dance based on the dance idea



How do I need to

Short and to the

No extended writing in this section.

1-4 mark questions.

Don't waste time on being over creative.

Motif writing can be just two sentences.

TIP! Always link back to the dance idea

Outline a dance idea or theme that you could consider from this stimulus. [1 mark]

Describe a motif you could choreograph for this dance. Your answer should refer to actions, space and dynamics, [3 marks] TIP! Describe this step by step

Give three ways you could develop the motif you have described. [3 mark]

Describe the climax of your dance. Your answer should refer to action, space and dynamics. [3 marks] TIP! Show the build up as well as the climax itself.

Give one way in which this climax communicates your choreographic intent. [1 mark]

Identify the type pof structure that could ne appropriate for your dance. [1 mark]

Give two ways in which this structure links to your chosen dance idea. [1 mark]

ACTION

Travel
Turn
Elevation
Gesture
Stillness
Use of different body
parts
Floor work
Transfer of weight

SPACE

Pathways Levels Directions Size of movement Patterns Spatial design

CHOREOGRAPHIC DEVICES

Motif and development Repetition Contrast Highlights Climax Manipulation of numbers Unison and canon

AURAL SETTINGS

Song Instrumental Orchestral Spoken word Silence Natural sound Found sound Body percussion

STRUCTURE

Complement & contrast

RELATIONSHIPS

DYNAMICS

Fast/slow

Acceleration/

deceleration

Strong/light

Direct/indirect

Flowing/abrupt

Lead and follow

Action & reaction

Accumulation

Counterpoint

Formations

Contact

Mirroring

Sudden/sustained

Binary
Ternary
Rondo
Narrative
Episodic
Beginning/middle/end
Unity
Logical sequence
Transitions

PERFORMANCE ENVRIONMENTS

Proscenium arch End stage Site-sensitive In-the-round

PERFORMANCE SKILLS

THE QUESTIONS WILL BE STRUCTURED LIKE THIS The following questions refer to your knowledge and understanding of performing

What will the How do I need to question ask? answer? A range of Short and to the questions about point. performance skills No extended writing in this These could section. include: 1-4 mark Definitions questions. Exercises Phrase descriptions can Rehearsal be just two methods Advice to dancers Phrase description

Describe a short movement phrase that includes the physical skill identified. Your

What advice would you give to a dancer that needs to improve their musicality. [1

Place a tick in the box next to the correct definition of projection in performance [1

The energy the dancers uses to connect with and draw in the audience.

PHYSICAL SKILLS
Posture
Alignment
Balance
Coordination
Control
Flexibility
Mobility
Strength
Stamina
Isolation

Extension

EXPRESSIVE SKILLS Projection Focus Spatial awareness Facial expression Phrasing Musicality Sensitivity to other dancers Communication of

choreographic intent

TECHNICAL SKILLS

Action Space Dynamics Relationships Timing Rhythmic content Moving in a stylistically accurate way

1	MENTAL SKILLS
	DURING
	PERFORMANCE

Movement memory Commitment Concentration Confidence

SAFE PRACTICE

DURING PERFORMANCE

Safe execution Appropriate dancewear, including: Footwear Hairstyle Absence of jewellery

MENTAL SKILLS PREP FOR PERFORMANCE

Systematic repetition Mental rehearsal Rehearsal discipline Planning for rehearsal Response to feedback Capacity to improve

SAFE PRACTICE

PREP FOR PERFORMANCE

Warming up Cooling down Nutrition Hydration

The overall shape and structure of the dance.

The use of eyes to enhance performance.

Dance that tells a story.

Which of the words below is a physical skill? [1 mark]

answer should refer to action, space and dynamics. [3 mark]

Define the physical skill you identified [1 mark]

Safe practice

Alignment

marks]

mark]

Dance Component Two: Section C Knowledge Organiser



A Linha Curva



Artificial Things



Emancipation of Expressionism



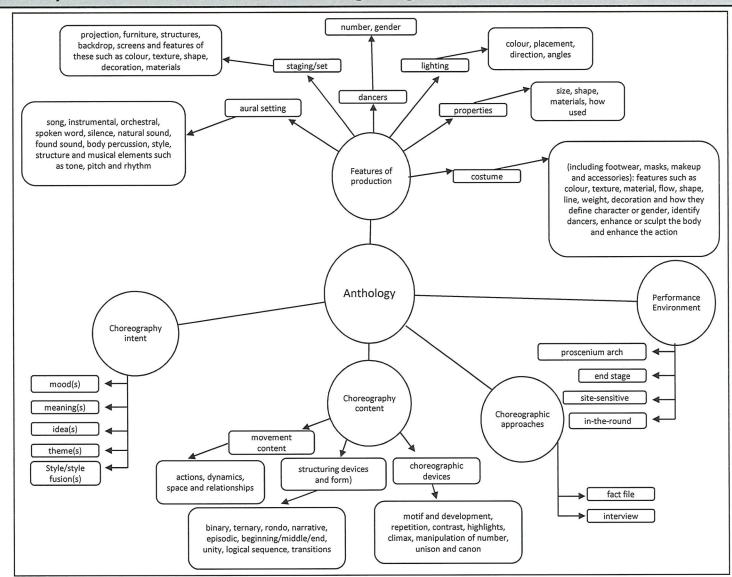
Infra



Shadows



Within Her Eyes



Drama: Performing from a Text Knowledge Organiser

Stimulus





Context:

J.B. Priestley

- · 1914-18: WW1, Aged 20, Priestley serves on the front line in France and is wounded
- 1919: awarded place at Trinity Hall, Cambridge to study Literature, History and Politics.
- 1922: begins to work as a journalist in London.
- 1934: writes 'English Journey' about the poorer parts on Britain,
- 1939-45: makes regular wartime radio broadcasts called 'Britain Speaks'.
- 1945: writes An Inspector Calls.

1912 England

- Work strikes
- Workers' rights Pre WW1
- Suffragette movement
- Class system

1945 England

- Post WW1 and WW2
- Social levelling
- Women's rights
- Workers' rights
- Trade unions
- National Insurance
- Welfare system















Style

The style of 'An Inspector Calls' is based on old Morality Plays. It is a bit like a detective story or a whodunnit. Morality plays were religious plays written in the late middle ages. They tended to involve the seven deadly sins and tried to teach people how they should behave.

Use of language in An Inspector Calls

The language in An Inspector Calls includes dialogue and stage directions. Priestley has tried to make the dialogue realistic so there is less emphasis on imagery and more focus on plain, at times emotive, expression.

It is important to consider how the dialogue adds to the drama of the play. The dramatic features of the dialogue include:

- dramatic pauses
- repetition
- gasps and interruptions
- ·fluency and length

The stage directions also add to the drama of the play. Early in the play, Sheila says to Gerald 'so you be careful'. This line could be delivered in a number of ways, each would change its meaning. Priestley specifies that the line is said 'half playful, half serious'. This stage direction gives a very early hint to observant audience members that all is not well between Sheila and Gerald. Without it, Priestley's dramatic intentions might be lost.

When analysing the language Priestley uses, you could use this structure:

- •What are the ideas Priestley is trying to get across?
- •How has he chosen particular words to reflect this?
- •What effect does this have on the audience?

Skills

Performer	Designer		
Vocal skills pitch tone pace/tempo pause accent volume clarity Physical skills gesture stillness	 Sound Design music sound effects live sounds recorded sounds volume reverb/echo sound sources amplification including use of microphones 	Lighting Design intensity focus angle special effects colour gobos types of lantern	
fluency expression posture facial expressions eye contact movement Space proxemics relationships positioned blocking interaction (set / audience)	Costume Design (including hair and makeup) choice and use of materials/fabrics garments hairstyles wigs make-up accessories colour/pattern.	Set design (including props) choice of stage backdrop/cyclora ma set dressing props furniture colour use of space entrances and exits sight lines	

Drama: Performing from a Text Knowledge Organiser

What themes are shown throughout your chosen play?
Explain why you chose to perform the sections you did —
How did you edit them? Do they represent key moments in the plot or developments of character? (Approximately 75 words on this)

150 word Artistic Intention



Overall performance intention – Will you use a practitioner? Why? How? Performance style? (two to three sentences)

How do you intend to perform your character (main character you play if you multi-role) and why – remember to include as many key drama and performance terms here as possible (Approximately 75 words here)

Sentence Starters

Noughts and crosses explores the themes of...

Within our chosen extracts, the theme of... is shown when... and...

The extracts we have chosen provides us with the opportunity to show...

This is important because...

Sentence Starters

We will perform the extracts in the style of...

We will use... when...

Our intention is to highlight...

Section choices	You need to select 3-4 sections from your chosen script and write up a list of pro's and con's for each of the sections. Think about the marking criteria and your ability to showcase performance skills.	Evaluate	Write a 500 word evaluation of your progress in this component. What particular skills have you made improvement on? What do you know now that you did not before? What have you still got to work on? Be fair to yourself and set targets to improve on next year. You MUST analyse and give examples for each point you make. This should be a minimum of 1 side of A4 and you should spend at least an hour on it.
Script	Read the whole of your chosen play script, not just the sections you are working on, in order to understand the whole piece and your character's role within it.	Artistic Intentions	Write a brief account of approximately 150 words (i.e. approximately half a side of A4) outlining your artistic intentions for the piece.
Script	Annotate the section you are performing with key notes on staging and performance. E.g. key movements of characters, how lines are delivered, objectives, subtext, blocking, staging, etc.	Design	Make yourself a mindmap / poster which explains key design elements such as—staging types / lights and lighting techniques / sound / set / props. Ensure that you explain WHAT you chose to do, HOW they are used and WHY you will use them in your performance.
General skills	Create a fact file on the genre of your script. What is it? Which practitioners work in this style? Conventions? Discuss set, costume, props, and the acting style. It should be a whole side of A4 and can include pictures.	Coursework	Ensure that all lines are learnt, you have chosen suitable costume, props, and set pieces and have bought these in. You should be full tech and dress rehearsals.

Sentence Starters			
Performer	Designer		
I intend to create a character which	SOUND DESIGNER		
···	Key Vocabulary: Diegetic, Non-diegetic, Band, Sound		
In the first extract, my character	effects, Found Sound, Recorded, Live, Silence.		
Through the use of I will			
demonstrate my character's	SET DESIGNER		
	Key Vocabulary: Flats.		
I will show may character's status	Levels, Location, Symbolic,		
by	Realistic, Scene change,		
	Texture, Materials, Props		
Vocally, I will demonstrate my			
character's emotions in this extract	Through set/sound design, I		
by	intend to create a[n] mood and atmosphere.		
My body language will be and			
this is intended to demonstrate	The stage type / music I		
	chose was because		
In contrast, throughout the second			
extract, I will perform my role by	Considering semiotics, I have decided to and this is intended to symbolise		

YEAR 11 ECONOMICS AUTUMN TERM

KEY TERMS

ECONOMIC GROWTH – Growth in GDP over time

GDP – Gross Domestic Product – the total value of goods and services produced by a country in a year

GDP PER CAPITA – GDP divided by the population

BOOM – A period of high economic activity and high levels of employment

RECESSION – a period of time when the country's GDP falls for two (or more) consecutive quarters

LABOUR FORCE/WORKFORCE – The number of people who work in the country

ECONOMIC GROWTH

Economic growth is one of the main aims of any government.

To calculate Economic Growth

Change in GDP

Rate of Growth = Original GDP $\times 100$

In essence Economic growth is the increase in value of output of a country. Output for a country is income for the people. So the value of output for a country is equivalent of the total income of the workers.

When there is Economic Growth both Output and incomes are rising

GDP

Is the country's GDP divided by the population. It is the output per head.

The terms Boom and Recession are used when talking about economic growth

WHAT DETERMINES GROWTH?

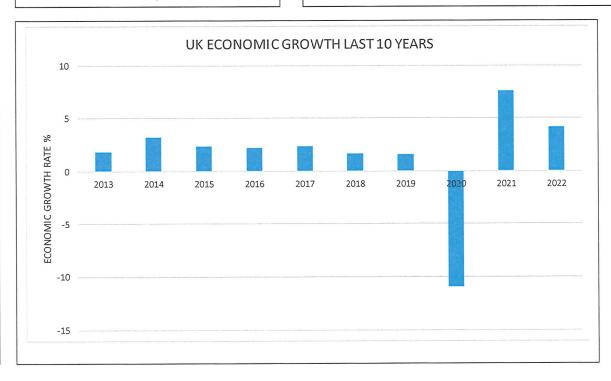
- Investment
- Changes in Technology
- Education and Training
- Labour Productivity

BENEFITS OF ECONOMIC GROWTH

- A rise in material living standards
- A reduction in poverty
- A rise in the welfare of the population
- A rise in employment

COSTS OF ECONOMIC GROWTH

- Environmental (Global Warming, Pollution, Congestion, Loss of Non – renewable resources)
- · Lower Quality of life
- Inequalities of income and wealth
- Inflation



KEY TERMS - EMPLOYMENT

EMPLOYMENT – The use of labour in the economy to produce goods and services

UNEMPLOYMENT – Where workers are unwilling or unable to work at current wage rates or can't find employment

CLAIMANT COUNT – The method of

claimant count – The method of measuring unemployment according to the number of people who are claiming unemployment related benefits

LEVEL OF UNEMPLOYMENT – The number of people in the working population who are unemployed

RATE OF UNEMPLOYMENT – The percentage of a country's workforce that is unemployed SEASONAL UNEMPLOYMENT – Lack of employment caused by a fall in demand during a particular season

FRICTIONAL UNEMPLOYMENT – Lack of employment caused by lags when workers move between jobs

STRUCTURAL UNEMPLOYMENT -

Unemployment caused by a permanent decline of an industry or industries

CYCLICAL UNEMPLOYMENT – Lack of employment caused by a lack of demand in the economy

DIFFERENT TYPES OF INCOME

- Wages
- Rent
- Interest
- Profit
- Benefits

COSTS OF UNEMPLOYMENT

- Costs to individuals
 - Lower living standards
 - Costs to tax payers
- Costs to Governments
 - Wasted Labour resources
 - Unemployment leads to unemployment
 - A budget Deficit
- Costs to Regions
 - o Normally spread unevenly throughout the country
 - o Community Decline

EVALUATING WHY INCOME IS UNEVENLY DISTRIBUTED IN THE UK

- Difference in wages (NMW, NLW)
- Reliance on Benefits
- Age
- Gender
- Inheritance
- Savings
- Property
- Enterprise

CONSEQUENCES OF DIFFERENCES BETWEEN INCOME AND WEALTH

- Poverty and deprivation
- Poor housing
- Poor health
- Inequality of opportunity

KEY TERMS – DISTRIBUTION OF INCOME

DISTRIBUTION OF INCOME – How incomes are shared out between individuals and households

INCOME – the reward for the service provided by a factor of production, including labour

WEALTH – The market value of all the assets owned by a person, group or country at a given point in time. Wealth is a stock of assets whereas income is a flow over time.

GROSS INCOME – Income received before any taxes are taken or benefits given

NET INCOME – Income available after the effect of direct taxes and benefit, often called disposable income

DISTRIBUTION OF WEALTH – How wealth is shared out between individuals and households

	Wealth
Richest	of the
	country
10th	45%
9th	19%
8th	13%
7th	9%
6th	6%
5th	4%
4th	3%
3rd	1%
poorest	0%
20th	076

How wealth was shared in the UK by tenths of population 2016 - 2018

Autumn

English Literature

Revision: Poetry

year 11

Paper 2 Section B

'Time and Place' Poetry Comparison question (closed book) 20 marks

- Compares and contrasts the poems
- Analysis of language, form and structure
- Explores the effect on the reader
- Comments on the relationship between the poem and context.

Comparison: consider the similarities and differences between two things

Question style: 'Question: 'Compare how... is presented in the two poems'

verb

exaggerates intensifies amplifies magnifies emphasises huperbolises accentuates

creates crafts engineers constructs COMPOSES establishes portrays

represents exemplifies tupifies embodies epitomises exhibits manifests

Themes Identity Death/Loss

Shows that you are considering the text as a construct

Connection

"mind forged manacles" - 'London' (1794)

"Seasons of mists and mellow fruitfulness" - 'To Autumn' (1820)

""While the chaffinch sings "-'Home Thoughts' (1845)

"Presuming Me to be a Mouse" - 'I Started Early' (1862)

Key Quotes:

"Earth has not anything to show more fair" - 'Composed' (1802)

-"I slowly climb/Through winter mire" - Where the Picnic Was (1914)

'unwontedly', 'hissed', 'bare'-'Adlestrop' (1917)

"the upper air like sapphire glowed" - 'In Romney Marsh' (1920)

"The thoughtless birds" - 'Absence' (1958)

> "it was too cold to swim" -'Stewart Island' (1971)

"I don't like the feel of it" - 'First Flight' (1988)

" hot, white, inwards turning/anger" - 'Nothing's Changed' (1994)

"fearful and reassuring" -'Hurricane Hits England' (1996)

"small minded package philistine abroad" - 'Postcard' (1996)

"My costume clung to me" -'Presents' (2000)

Terminology:

- 1. Ode lyric poem addressed to a particular subject
- 2. Sonnet a poem of fourteen lines using any of a number of formal rhyme schemes, in English typically having ten syllables per line.
- 3. Elegy a poem of serious reflection, typically a lament for the dead.
- 4. Regular rhyme- similar sounds at the end of a line, used in a clear pattern across a poem.
- 5. Blank verse no regular rhyming pattern, but may have a
- 6. Free verse no rhyme scheme or rhythmic pattern.
- 7. Enjambment the continuation of a sentence without a pause beyond the end of a line, couplet, or stanza.
- 8. Caesura a break between words or phrases.
- 9. Repetition repeating something that has already been written.
- 10. Stanza a group of lines forming the basic recurring metrical unit in a poem; a verse

Paragraphing:

Always start a new paragraph whenever you change:

- Time
- Place
- · Topic
- Person

Remember TiPToP

Autumn

English Language year 11

Imaginative Writing: creating an engaging narrative

Sentence types:

Declarative - make statements (most likely to be fact or opinion statements)

Exclamative - express emotion (most likely to end with an exclamation mark)

Imperative - give commands (include imperative verbs)

Interrogative - ask questions (end with a question mark)

Punctuation

- . Full stop ends a sentence
- , comma separates ideas
- : Colon introduces a list
- ; semi-colon separates clauses
- ! Exclamation mark adds emphasis
- ? Question mark interrogative
- " " Speech marks indicates speech
- Hyphen shows connection
- ... Ellipsis creates mystery/intrigue

Word bank

Ways to start sentences

Start your sentence with an 'ed' word: Alarmed, Angered, Abandoned, Astonished, Bewildered
Start your sentence with an 'ing' word: Hiding Jumping Knowing Riding Praying Thinking Stopping
Start your sentence with an adverb: Accidentally, Bravely, Cheerfully, Defiantly, Fortunately, Menacingly
Adverbial phrase for when something happens: After running up the hill, Before charging into battle,
Adverbial phrase for how something happens: With her feet squelching in the mud, Jane trudged...
Adverbial phrase for where something happens. Around Behind Beneath Beside In On Over Past
Start with a simile. (A simile compares two things): As dark as... As busy as... As clear as...

A drop in clause adds in extra information: The dragon, who had fearsome talons, flew off into the sky. The brave knight, who was wearing a coat of armour, strode through the castle doors.

Word types

Noun – Person, place, thing

Pronoun – In place of a noun 'you'

Verb – an action or state

Adjective – describes a noun

Adverb – describes a verb

Preposition – shows the relationship between objects

Determiner – used in front of a noun to show the type 'the' 'a'

Conjunctions - joining words

Top tips

- Remember that all sentences and names start with a capital letter.
- Always write in complete sentences.
- Include descriptive detail to set the scene for the reader.
- Use a variety of sentence starters and vocabulary.
- Write with a range of punctuation.

Writing in timed conditions

Drop - where are you?
 Describe the setting

2. Characters – who are you with?

4. Flashback —when it happened to you

3. Zoom – what's happening?
Link to the task focus

J

5. Ending - create a cliff-

hanger or surprise

- There/their/they're there= place, their=belongs, they're=they are.
- Which/witch which=choice, witch=supernatural
- To/too/two to=the direction, too=a lot, two=2

The purpose of a text can be defined as:

- To persuade
- To argue
- · To advise
- · To inform
- · To explain
- To describe

Top tips

- Remember that all sentences and names start with a capital letter.
- Always write in complete sentences.
- Include descriptive detail to set the scene for the reader.
- Use a variety of sentence starters and vocabulary.
- Write with a range of punctuation.

Autumn

English

year 11

Transactional Writing: composing a text for a specific purpose

Not only but also So, so Upgrade Your Sentence! Not only are holidays too infrequent, but they Holidays are so also are badly timed. infrequent, so short, that they feel as if Less less less Fortunately/ Double they are over before adjective start unfortunately they begun. The less time spent with the family means the less time that is spent establishing family values, which Fortunately, the Infrequent and means the less time a child is able to connect with holiday companies are expensive, their parents. aware of holiday dates holidays hit the and can adjust the Brackets although Whoever/ pockets of families capacity for those Holidays are whenever across the country. periods, unfortunately School holidays are this comes at a too infrequent. too infrequent significant financial Whoever dictates (although, some premium. holiday dates, and killjoys will love to tell whenever they you otherwise) and Verb beginning More more more decide for them to the impact this has fall, ultimately on students can be The more dirt that was shifted away, the controls the Considering the seen in the high happiness of millions more of the statue's belly was exposed, anxiety rates amount of time of families across the and the more indignant the sacred relic amongst teenagers. spent apart from country. became. their families. Triple noun colon Adverb beginning holidays are clearly too Fury, anger, dismay: the statue felt his Typically, no one consults children on how

Hook

What will you say to get the audience's attention? Use a compelling image or story? Say something challenging or powerful about the issue? Greet people?

Exposition/Setting

Give the background why should your topic matter to people? What is its history? Why is it relevant to this particular audience? This might involve sharing some research data, too.

Rising Action/ Complication

infrequent.

Establish the fact that this is a burning issue. What will happen if things don't change? What is at risk? What are the potential challenges which might arise?

Climax

they feel about holiday dates and the

frequency of their breaks.

What is the single most important argument in your favour? What will draw emotion, engagement and agreement from people?

Falling action/

more damaging emotions.

sadness slip away and was replaced with

Begin to paint a vision of what can happen if things begin to change - why should the audience be hopeful? What signs are there that good things are happening?

Satisfying ending

What are your solutions
to this issue? What
practical things would
you like to see
happening? How can
people help by
changing their attitudes,
behaviours, habits?

Features of non-fiction texts

Letter:

- Use address
- Include a date
- Use a formal mode of address (Dear Sir or Madam)
- Sequence your paragraphs fluently
- Sign off appropriately.

Article:

- Create a clear and appropriate headline
- Use subheadings
- Include an overview paragraph (introduction)
- Effectively and fluently sequence your paragraphs.

Speech:

- Create a clear address to your audience
- Effectively and fluently sequence your paragraphs
- Use rhetorical indicators to show the audience is being addressed throughout
- A clear sign off at the end (even if it's just 'thank you for listening').

Food and Nutrition

NEA 1 Food Investigation Task

What is a Food Investigation?

A Food Investigation involves **investigating and understanding** how ingredients in food work and why.

It is completed through research, practical experimentation and then evaluating a given task.

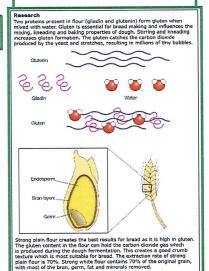
Nearly all food that you buy has been through a form of scientific investigation before it hits the supermarket shelves.

A Food Investigation should...

- Show understanding of the working characteristics, functional and chemical properties of ingredients.
- Include a hypothesis and research into 'how ingredients work & why', documenting practical investigation & drawing conclusions.

When researching or investigating a task, 'copy and paste' from the first thing you find on Google doesn't help towards *really* understanding words and definitions. If you don't understand the first answer, keep looking until you get a better understanding.

Research the task



How the task will be assessed

Breakdown of assessment		
Choose and analyse task		
Section A: Research	6 marks	
Section B: Investigation	15 marks	
Section C: Analysis and evaluation	9 marks	
Total	30 marks	

Examples of Food Investigation tasks

- 1. Investigate the ingredients used for bread making.
- Investigate the use of raising agents in baked products.
- 3. Investigate the use of ingredients used to thicken sauces and soups.

Key Words

Analyse – Examine something to see what it is or how it works

Research – Finding things out, collecting information, increasing knowledge

Hypothesis – A guess, a prediction, a scientific theory

Investigation – Testing a theory using research and hypothesis. Gathering evidence.

Analysis – Breaking down your findings. Ask how they relate to each other.

Evaluation – Examine your findings. Give a balanced view.

Carry out an investigation using your research

Controls when carrying out practical investigations

When carrying out investigations controlled testing ensures the results are accurate.

Examples of controls to ensure a fair test

Weigh ingredients accurately, if possible, use digital scales.

Use cutters and templates to ensure a consistent size.

Cook at the same temperature and for the same amount of time.

When testing use random codes (e.g. XZY) to avoid any bias.

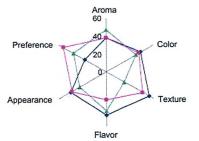
Serve samples at the correct and same temperature.

Make sure testers know how to fill in the charts.

When writing up your findings, think about;

- · What controls did you use to make it a fair test?
- Do you think the investigation carried out to prove your hypothesis was relevant? Give reasons.
- What else could have been done to improve the investigation and how it was carried out?





For your evaluation...

Explain how you could use your findings when cooking food in the future.

Food and Nutrition

NEA 2 Food Preparation Task

The NEA 2 is a Food **Preparation** Task.

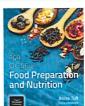
The goal is produce a 20 sided word report. It is the opportunity for you to put into practice <u>all</u> that you have learnt throughout the course. The task is mainly **practical based** using a range of food preparation and technical skills.

The final assessment will be a <u>3 hour exam</u> to cook your chosen dishes.

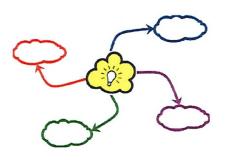
An online digital book can help you!

Go to: https://www.illuminate.digital/aqafood/

Username: sashmanor3 Password: student3 Pages: 241-243



Note: Unfortunately, the book is not compatible with mobile phones



Research the task (6 marks)

Choose your task carefully. Think about the following;

- · The research you could carry out
- Possible dishes you could make for the task
- · The target group for the dishes.

The research is based on either of the following target groups:

- A dietary life stage Young children, adult, teenager, young children.
- A dietary group e.g. vegetarians, vegans, high fibre diet etc.

Comment on how well the research findings have been summarised:

- a) Is the research relevant to the task title?
- b) How well has the analysis been written?
- c) How does the analysis focus on the task topic?
- d) How will the analysis help in the selection of recipes for the practical work?

Mind mapping

Mind maps are a great way to explore and plan out ideas.

They help to brainstorm, structure and form new ideas that you may not have necessarily though about in your previous ideas.

Use them to help during different stages of the task.

Demonstrating Skills (18 marks)

Now it's time to demonstrate your practical skills. The dishes you make must reflect the research you carried out.

Different dishes have different skill levels. It is up to you to aim high and show off your practical skills.

Skills include;

- Knife skills
- Dough making
- Sauces
- · Setting mixtures etc.

One possible approach to recording a dish is shown below:

Recipe 1: Roasted vegetable lasagne

Reasons for choice: I chose to make this product because it is possible to showcase my sauce-making skills. The sauce also requires a lot of stirring, and understanding of gelatinisation, in order to prevent lumps forming. This is a typical Mediterranean dish.

Ingredients: Filling 400g peppers/aubergine, courgettes and red onion, 75g mushrooms, can tomatoes, 1 pepper, 10g fresh basis. Pasta 140g flour, 2 medium eggs. Sauce 50g plain flour, 50g soft spread, 500ml milk, 100g cheese

Skills: Making pasta is a complex skill: making the dough, rolling the dough out to the correct thickness, cooking the pasta. For a roux sauce I need to ensure the sauce is at the correct consistency. Vegetable preparation: chopping and slicing.

Sensory evaluation:

	Taster 1	Taster 2	Taster 3	Taster 4	Total
Appearance	4	5	4	4	15
Texture	4	4	4	5	17
Taste	4	4	3	5	16
Aroma	3	2	4	3	13

The appearance scored 15/20. The tasting panel liked the crisp golden brown cheese topping and the contrast with the red peppers. The purpose of this skills test was to test how to make pasta as this is something I have not done before. The texture scored 17 out of 20. The tasting panel liked the texture and commented that it was cooked correctly. I hope to use fresh pasta as part of my final menu. The taste scored only 16 out of 20. The panel thought the pasta was a little bland and could have more flavouring such as basil to give a more appetising overall flavour.

Planning final menu (8 marks)

After demonstrating your cooking skills, you will decide on three dishes for your final assessment. These dishes WILL NOT have been made by you before.

You will cook the 3 dishes in a 3 hour assessment exam.

The dishes are showing off cooking skills, presentation skills and showing a understanding of the task.

A time plan will be required to take into the exam and followed.

Example of a time plan for dishes for the Mediterranean task

Dish 1: Minestrone soup with chilli and basil bread rolls

Dish 2: Tortellini with salmon, spinach and ricotta

Dish 3: Caramelised fig and honey tarts

Time	Order of work	Health and safety/special points
	Mise en place: Collect equipment, utensils.	Personal hygiene: Key personal
	Wash all vegetables.	hygiene rules could be added to the time plan.
	Weigh ingredients for pastry, bread and tart filling.	Food safety: Clean surfaces with antibacterial spray. Check all
	Grease the tart tins.	equipment is clean. Check use by
10:00	Soup: Peel and chop carrot, shred the cabbage, chop garlic, chop parsley, slice the	and best before dates. Use a brown chopping board for vegetables.
	green beans. Chop chilli and basil for the bread.	Refrigerate: high risk ingredients (between 0°C and below 5°C).
	Figs: Cut across halfway down gently squeeze	Oven: Pre heat oven to 200°C/Cos 6.
	to open the fig out like a flower. Segment an orange.	Cooking temperatures: Temperatures recorded for the cooking of each dish to allow for oven management.
10:15	Bread: Mix flour and salt. Measure the warm	Use warm water so not to kill the
	water, add yeast, sugar and stir until dissolved.	yeast.
	Add to the flour and mix to soft dough with a	Cover with oiled ding-film and leave
	knife. Turn onto a floured table and knead well.	to prove in a warm area.
	Add the chopped chilli and basil.	
10:20	Wash up and clean work surfaces.	The food processor is sharp, so care
10:25	Pastry: Place the flour, butter and icing sugar into a food processor and pulse until the robbure resembles breadcrumbs. Add half of	must be taken when handling the blade.
	the beaten egg and pulse until the mixture forms a dough. Turn out onto floured work surface and kneud briefly until smooth.	Wrap the dough in cling film and chill for 20 minutes until firm.
10:35	Pasta: Add flour to a bowl and make a well. Crack the eggs into the well and gradually mix	Use flour dredger to stop the dough sticking.
	with a blant knife, Incorporate the flour. Knead until well blanded and the dough is soft and flexible, Place the salmon fillet in foil and bake in the oven for LS minutes.	at least 20 minutes. Oven bake the salmon at 180°C for 15 minutes.
10:40	Wash up and clean work surfaces - care with for	
10:50	Remove bread from proving oven and knock back. Divide into six and shape.	Cover with cling film and leave to prove for 10 minutes.
10:55	Roll out chilled pastry onto lightly floured work surface line six loose bettomed tart tins. Line with greaseproof paper and fill with baking beans, Remove salmon fillet from oven.	Bake at 200°C for 15 minutes.

Bon Travail Good work

Future Aspirations, Study, and Work



Qu'est-ce que tes parents font comme travail?

What do you parents work as?

Ma mère est professeur d'anglais et travaille dans une école secondaire. Je pense qu'elle adore son travail. Mon père est ingénieur et il est aussi passionné par le travail qu'il fait. Ils ont de la chance tous les deux!

Quel est le plus important pour toi dans un métier?

What is the most important thing for you in a job?

Personnellement ce que je cherche dans un métier c'est le fait de faire quelque chose qui me plaît vraiment et qui aide les autres. Le salaire n'est pas le plus important pour moi dans le choix de la profession.

Quelles sont tes qualités personnelles? What are your personal qualities?

Mes amis me disent que je suis une personne sérieuse et avant tout responsable. Pour gagner un peu d'argent de poche, le week-end, je fais souvent du baby-sitting des enfants de mes voisins. Quant à mes compétances linguistiques, je parle couramment l'anglais et un peu français.

Voudrais-tu travailler dans un bureau?

Would you like to work in an office?

Je suis une personne active et pleine d'énérgie. Je pense qu'il serait difficile pour moi de rester assis.e devant l'ordinateur 8 heures par jour. Ce n'est pas pour moi le travail dans un bureau!

À part le travail, quels sont tes projets pour le futur ?

Apart from work, what are your future plans?

Dans le futur, d'abord, je voudrais finir mes A levels. Après avoir réussi à mes examens, j'irai à l'université. Puis, avant de commencer le travail professionnel je voudrais prendre une année sabbatique pour voyager un peu autour du monde.

Quel travail est-ce que tu voulais faire quand tu étais plus jeune ?

What job did you want to do when you were younger?

Quand j'étais plus jeune je voulais être pompier car j' étais vraiment passionné par le camion de pompier et l'uniforme rouge. Cela me semble ridicule maintenant.

Dans quel secteur voudrais-tu travailler?

What sector would you like to work in?

Mon ambition est de travailler dans l'informatique. Le plus important pour moi est d'être bien payé.e et de faire le métier qui me plaît. Et heureusement, c'est le cas, j'ai beaucoup de chance!

Tu veux te marier un jour?

Do you want to get married one day?

Je crois qu'il est trop tôt pour moi de répondre à cette question aujourd'hui.

Dans le futur, je voudrais d'abord finir mes études et voyager un peu autour du monde avant de fonder, peut-être, ma propre famille un jour

Question you will ask:

Quel est ton emploi ideal?

What is your ideal job?

Le travail idéal pour moi c'est d'être hôtesse de l'air. C'est un travail très stimulant, mais les choses qui me plaisent le plus c'est le contact avec les clients et la possibilité de voyager autour du monde et d'utiliser ma connaissance des langues vivantes.

Parler d'autres langues, c'est important ou non?

Is speaking other languages important or not?

Savoir parler une langue étrangère est actuellement indispensable pour exercer certaines professions, en plus, on a plus de chances d'obtenir une promotion au travail. Quand on voyage on peut parler avec les gens du pays dans leur langue ce qui est très utile.

Fancy Phrases:

PERFECT TENSE ("has done/did")

Start with the present tense of avoir/être, then add the past participle of the second verb:

	-er	-ir	-re
	Remove – e r Add <i>-é</i>	Remove -r	Remove <i>–re</i> Add <i>-u</i>
•	jouer > (j'ai) joué	fin ir → (j'ai) fini	vend re → (j'ai) vend u

VERBS USING ÊTRE e.g. je suis allé(e)

monter entrer sortir venir aller naître partir descendre arriver tomber rester mourir retourner (and all reflexive verbs)

The past participle for these verbs must agree with the subject in gender and number:

je suis allé (m) je suis tombée (f) on est entrés (mpl) on est entrées (fpl)

PRESENT TENSE ("does/is doing")

Remove the -er/-ir/-re and add these endings:

	jouer	finir	vendre
je	jou e	fin is	vend s
tu	jou es	fin is	vend s
il/elle/on	jou e	fin it	vend
nous	jou ons	fin issons	vend ons
vous	jou ez	fin issez	vend ez
ils/elles	jou ent	fin issent	vend ent

ÊTRE

je suis / tu es / il est / nous sommes / vous êtes / ils sont **AVOIR**

j'ai / tu as / il a / nous avons / vous avez / ils ont

SIMPLE FUTURE TENSE ("will/shall do")

Add these endings to the infinitive:

	jouer	finir	vendr
je	jouer ai	finirai	vendrai
tu	jouer as	finiras	vendras
il/elle/on	jouer a	finira	vendra
nous	jouer ons	finir on s	vendr ons
vous	jouer ez	finirez	vendr ez
ils/elles	jouer ont	finir ont	vendr ont

IRREGULAR STEMS

être (ser-)avoir (aur-)faire (fer-)venir (viendr-)savoir (saur-)aller (ir-)devoir (devr-)pouvoir (pourr-)voir (verr-)

IMPERFECT TENSE ("was doing/used to do")

Remove —ons from the nous form of the present tense, add these endings (ais/ais/ait/ions/iez/aient)

	jouer	finir	vendre
je	jou ais	finiss ais	vend ais
tu	jou ais	finiss ais	vendais
il/elle/on	jou ait	finiss ait	vend ait
nous	joui ons	finiss ions	vend ions
vous	joui ez	finiss iez	vendiez
ils/elles	jou aient	finiss aient	vend aient

NEAR FUTURE TENSE ("is going to do")

Use the present tense of *aller* followed by the infinitive:

		I
je	vais	
tu	vas	jouer finir
il/elle/on	va	vendre
nous	allons	être aller
vous	allez	vouloir etc.
ils/elles	vont	

CONDITIONAL TENSE ("would do")

Begin with the future stem, add imperfect endings:

	jouer	finir	vendr <mark>⊭</mark>
je	jouer ais	finirais	vendr ais
tu	jouer ais	finirais	vendr ais
il/elle/on	jouer ait	finirait	vendr ait
nous	joueri ons	finir ion s	vendr ions
vous	joueri ez	finiriez	vendr iez
ils/elles	jouer aient	finira ient	vendr aient

IRREGULAR STEMS

Same as for the simple future

EXTRA MARKS: USE WITH THE IMPERFECT TENSE Si j'avais le temps, j'irais... (If I had time, I'd go to...)

Very similar to the perfect tense, except you start with the *imperfect* tense of auxiliary verbs *avoir/être*: e.g. j'avais joué, il avait fini, nous étions allés, elles s'étaient brossées les dents

PLUPERFECT TENSE ("had done")

Year 11 G	Geography Autumn Term - Rivers		River F	Processes		н	lydrographs and River Discharge	
	Water Cycle Key Terms	As rivers flow, they erode material, transport it & then deposit it further downstream.			R	River discharge is the volume of water that passes a certain point in a river per second. Hydrographs show how the discharge of a river changes in relation to rainfall.		
Precipitation	Moisture falling from clouds as rain, snow or hail.		land/sediment. There are 4 types of erosion: material. How material is moved		ration is the movement of erode w material is moved depends of size of the particles:	n the 1	. Peak discharge is the highest ischarge a river reaches.	Rundf Herbordage (comes) 2
Interception Surface Runoff	Vegetation prevents water reaching the ground. Water flowing over surface of the land into rivers.	Attrition	Rocks that bash together to become smooth/smaller.	Traction	Large particles liked boulde pushed/rolled along.	rs are 2	. Peak rainfall is the time when ainfall is highest.	- n
Infiltration	Water absorbed into the soil from the ground.	Solution	A chemical reaction that dissolves rocks.	Saltation	Pebble-sized particles are bounced along the river bed	2	. Lag time is the delay between peak	13 13
Transpiration	Water lost through leaves of plants. River Long Profile & Cross Sections	Abrasion	Eroded rocks picked up by the river and scrape/rub the channel.	Suspension	Small particles like silt and sare carried along by the wafloat.	sand ter / 3	ainfall and peak discharge. Rising & falling limb is the increase at decrease in river discharge.	Anabase Committee Committe
Upper Course	Steep gradient, V-shaped valley, steep sides, narrow & shallow channel.	Hydraulic	The sheer force of the water	Solution	Soluble materials e.g. limes	tone	River Manage	ment Schemes
Middle Course	Medium gradient, gently sloping valley sides, wider & deeper channel.	Action	enters cracks in the channel, air compresses, causing the crack to expand and break away.		dissolved in the water and carried along.		Soft Engineering – reduce flood impacts	Hard Engineering – aim to prevent floods
Lower Course	Gentle gradient, very wide almost flat valley. Very wide & deep channel.	Depositi	ion is when a river drops eroded mater This happens main				Afforestation: plant trees to soak up rainwater, reduces flood risk.	Straightening channel: increases velocity to remove flood water.
	Upper level Mid-course Lower course Sea/Lake		Physical and Human Causes of Flooding.		A	Flood warnings: The Environment Agency sends out flood warning via Agency sends out flood warning via		
	Long prome	There are several factors that shorten lag time so the peak discharge is higher and flooding is more likely to occur. All cause less infiltration and more surface runoff.			e likely F	where floods are likely. Flood relief channel: channel	Embankments/levees: raised banks so the river can hold more water Flood relief channel: channels built	
Changing v	Changing valley shape Changing channel shape		Physical: Prolonged & heavy rainfall Long periods of rain causes soil to become Impermeable rocks such as granite causes surface				urface r	to divert water around built up areas.
	Closs-sectional Shape valves with discrarge Discharge # (Cross Sectional Area) x Melocity	saturated, reducing infiltration and increasing run off as they don't allow infiltration, this leads to increased river discharge.			ase Study: Boscastle Flood Defences			
	read-one-on-		Physical: Relief Steep-sided valleys discourage infiltration and encourage surface run off, channelling water to flow quickly into rivers causing greater discharge. Human: Land Use Tarmac and concrete are impermeable. This prevents infiltration & causes surface run off, leading to greater discharge		f, pi	ocation and Background: oscastle in North Cornwall suffered a fl roperties, injured 1 person, washed 50 conomy (90% reliant on tourism).		
	Upper Course Landforms		Middle Cou	lle Course Landforms		2000000	Flood Management Scheme: Cost £4 million -Soft engineering: a gauge was put in to measure river levels & improve prediction, dead trees & vegetation removed, car park has been raised, flood plain zoning Hard engineering: the river channel has been widened and deepened, new embankments built, and old ones strengthened, new bridge constructed. Social - the scheme will only protect residents from a 1 in 75 year flood.	
Form when a river flows over a an area of hard rock (e.g granite) followed by an area of soft rock (e.g. clay). The softer rock is eroded by abrasion and hydraulic action forming a step. A steep drop is eventually created, called a waterfall. Over time the hard rock is undercut, becomes		Mea	therefore lateral erosic abrasion occurs causin - The current is slower of	n the outside of to on in the form of a g a river cliff . on the inside of the	the bend (as it is deeper) hydraulic action and the bend (as it is shallower),	pi pi - ei		
	unsupported and collapses. This causes more abrasion leading to the formation of a plunge pool. Overtime this process repeats leaving a steep sided gorge.		therefore deposition happens forming a slip off slope. Meanders can eventually form an oxbow lake. Key steps:		E	Economic - the scheme cost £4million but is not as good as it could be Environmental - biodiversity has increased as the river is now more natural.		
	In the upper course most of the erosion occurs vertically	y Oxbow the outside bends to get ates Lakes The river breaks through river flows along the sho		nortest route. Deposition eventually cale on			Lower Course La	ndforms
Interlocking Spurs	(downwards) by hydraulic action and abrasion – this cre steep sided v-shaped valleys. The rivers lack the power to erode laterally (sideways) so they have to wind around					Flood Plains	Flood plain is the wide valley floo occasionally floods. When rivers f energy and deposits material (all	
hillsides that stick out into their paths either side. The hillsides that 'interlock' are called interlocking spurs.		1. Comments	Some Author Williams To galactic from good We Marked took from June Capabor late - 147 Michael Anne marked took from good We Marked took from June or shough sampless All poff clope All poff clope		Levees	river channel. During a flood mate	(raised banks) along the edges of a erial is deposited over the whole flood posited closest to the river channel, over ng levees.	
		a gudusty be			Estuaries	Estuaries are found at river mouths. The water here is tidal – the river		

Year 11 Geography Autumn Term - The Living World What is an Ecosystem? An ecosystem is a system in which organisms interact

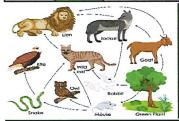
with each other and with their environment.

Ecosystem's Components

Abiotic	These are non-living , such as air, water, heat and rock.
Riotic	These are living such as plants insects and animals

Flora Plant life occurring in a particular region or time.

Animal life of any particular region or time.



Food Web and Chains

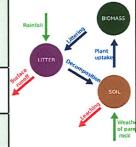
Simple **food chains** are useful in explaining the basic principles behind ecosystems. They show only one species at a particular trophic level. **Food webs** however consists of a network of many food chains interconnected together.

Nutrient cycle

Plants take in **nutrients** to build into new organic matter. Nutrients are taken up when animals eat plants and then returned to the soil when animals die and the body is broken down by **decomposers**.

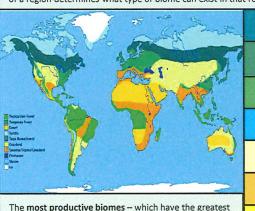
Litter	This is the surface layer of
	vegetation, which over time
	breaks down to become humu

Biomass The total mass of living organisms per unit area.



Biomes

A biome is a **large geographical area of distinctive plant and animal groups**, which are adapted to that particular environment. The climate and geography of a region determines what type of biome can exist in that region.



biomass - grow in climates that are hot and wet.

Coniferous forest

Deciduous forest

Tropical rainforests

Tundra

Temperate grasslands

Tropical grasslands

Hot deserts.

Biome's climate and plants

Location

Biome

Tropical Centred along the Equator.			
Between latitudes 5°- 30° north & south of Equator.	Warm all year (20-30°C		
Found along the tropics of Cancer and Capricorn.	Hot by day (over 30°C) Cold by night		
Between latitudes 40°- 60° north of Equator.	Warm summers + mild winters (5-20°C) 4 seasons		
Far Latitudes of 65° north and south of Equator	Cold winter + cool summers (below 10°C)		
North/South Poles Arctic/Antarctic	Very low temperatures year round can reach - 50°C		
	Equator. Between latitudes 5°-30° north & south of Equator. Found along the tropics of Cancer and Capricorn. Between latitudes 40°-60° north of Equator. Far Latitudes of 65° north and south of Equator North/South Poles		

CASE STUDY: Small-Scale Ecosystem- Freshwater Pond

Freshwater ponds provide a variety of habitats for plants and animals.

Pond margin	Plenty of oxygen & light here. Herons & reeds found here.
Pond Surface	Plenty of oxygen & light producers such as algae/waterlily and consumers such as ducks.
Mid water	Animals breathe through gills. Fish (stickleback): main predators.
Pond bottom	Little oxygen or light. Decomposers & scavengers like water fleas here.

Changes to ecosystems

A change to one part of an ecosystem can have an impact on other parts

Perch	
(predator)	
added to pond	

Canopy Layer

Perch will eat smaller fish and frogs ->

Reduced food for creatures higher up food chain e.g. herons ->

Temperature

Rainfall

Very high (over

Wet + dry season

Very low (below

300mm/year)

1500m /year)

500mm/year)

Very low rainfall

(500-1500mm/year)

Variable rainfall (500-

Low rainfall (below

200mm/year)

Flora

variety of species.

adapted to drought.

of species.

lichens

Tall trees forming a canopy; wide

Grasslands with widely spaced

Lack of plants and few species;

Mainly deciduous trees; a variety

Small plants grow close to the

Some plants such as mosses and

ground and only in summer.

With fewer frogs there will be an increase in frogs lower in food chain

Tropical Rainforest Biome

Fauna

Greatest range of different animal

species. Most live in canopy layer

Large hoofed herbivores and

Many animals are small and

Animals adapt to colder and

nocturnal: except for the camel.

warmer climates. Some migrate.

Low number of species. Most

Very few-polar bears, penguins

animals found along coast.

carnivores dominate.

Tropical rainforest cover about 6 per cent of the Earth's surface yet they are home to over half of the world's plant and animals.

Interdependence in the rainforest

A rainforest works through **interdependence**. This is where the plants and animals **depend on each other** for survival. If one component changes, there can be **serious knock-up effects** for the entire ecosystem.



Distribution of Tropical Rainforests

Tropical rainforests are centred along the Equator between the Tropic of Cancer and Capricorn. Rainforests can be found in South America, central Africa and South-East Asia. The Amazon is the world's largest rainforest and takes up the majority of northern South America, encompassing countries such as Brazil and Peru.

Layers of the Rainforest

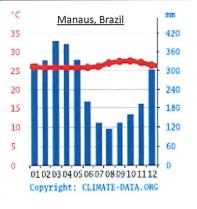
407.980		
*	Emergent	Highest layer with trees reaching 50 metres (average).
2	Canopy	80% of life is found here as It receives most of the sunlight and rainfall.
yer	U-Canopy/storey	Consists of trees that reach 20 metres high (approximately).
	Shrub Layer	Lowest layer with small trees that have adapted to living in the shade.

Rainforest nutrient cycle

The hot, damp conditions on the forest floor allow for the rapid decomposition of dead plant material. This provides plentiful nutrients that are easily absorbed by plant roots. However, as these nutrients are in high demand from the many fast-growing plants, they do not remain in the soil for long and stay close to the surface. If vegetation is removed, the soils quickly become infertile.

Climate of Tropical Rainforests

- Evening temperatures rarely fall below 22°C.
- Due to the presence of clouds, temperatures rarely rise above 32°C.
- · Most afternoons have heavy showers.
- At night with no clouds insulating, temperature drops.





Tropical Rainforests: Case Study The Amazon

Cold Environments: Case Study Alaska, USA



The Amazon is the largest rainforest on earth covering an area of 8million km2 (the UK is 250,00km2) It covers countries such as Brazil, Peru, Colombia, Venezuela, Ecuador, Bolivia, Guyana, Suriname, French Guiana.

Plant Adaptations to	the rainforest	Animal Adaptations to the rainforest		
Buttress Roots Big roots to support 50 metre high trees.		Poison dart frog	Has sucker-like toes to deal with wet /	
Drip Tips	Allows heavy rain to run off leaves easily.	Toucan	slippery branches Has a special beak to scoop up fruits of	
Lianas & Vines Climbs trees to reach sunlight at canopy.			forest	

Alaska is a cold environment that is part of the USA. Northern Alaska is inside the Arctic Circle. Alaska's state population is one of the smallest in the USA despite being the largest state by area.

Distribution of Cold Environments

Tundra is located at high latitude (above 60° north) in Northern Canada, Northern Europe e.g. Scandinavia and Alaska. Polar environments are found around the north and south poles.



Major characteristics of Cold Environments

- Tundra: Cold winters and brief summers and little rainfall.
 - Polar: Very cold and icy and dry. Very little grows. They remain dark for several months each year.

Issues related to biodiversity

Why are there high rates of biodiversity?

- Warm and wet climate encourages a wide range of vegetation to grow.
- There is rapid recycling of nutrients to speed plant growth.
- Most of the rainforest is untouched.

Main issues with biodiversity decline

- Keystone species (a species that are important of other species) are extremely important in the rainforest ecosystem. Humans are threatening these vital components.
- Decline in species could cause tribes being unable to survive.
- Plants & animals may become extinct.
- Key medical plants may become extinct.

Impacts of deforestation

Economic development

- + In March 2018 Brazil exported \$600 million of beef
- + One mining company in Peru (Buenaventura Mining Company) employs over 8,000 people
- The loss of biodiversity will reduce tourism and local Brazilian rubber tappers have lost their livelihood.

Soil erosion

- Brazil is loosing 100m tonnes of topsoil every year. This may lead to landslides and flooding.
- Soil fertility reduced as more water reaches soil

Climate Change

- Rainforests are carbon sinks- the Amazon stores 140 billion tonnes of carbon. deforestation releases this Co2 which is a greenhouse gas
- Up to 75% of Brazils CO2 emissions come from deforestation.

What are the causes of deforestation in the Amazon?

- Logging- 2-3% of deforestation Most widely reported cause of destructions to biodiversity.
- Timber is harvested to create commercial items such as furniture and paper.
- Violent confrontation between indigenous tribes and logging companies.

Mineral Extraction < 2%

Precious metals are found in the rainforest.

Energy Development < 2%

- Areas mined can experience soil and water contamination.
- Indigenous people are becoming displaced from their land due to roads being built to transport products.

Subsistence Farming- 20-25%

Cattle Ranching- 65-70%

in the Amazon.

slash and burn.

pasture.

Biggest cause of deforestation

Forest is cleared to make space

for cattle grazing. Normally by

There are around 200 million

cattle on 450,000km2 of

Commercial Farming: 5-10%

has been used for it's

production.

Soy is also farmed here- up to

250.000 km2 of former forest

Rice, cane and sugar cane are

also grown and sold for profit.

- The high rainfall creates ideal conditions for hydro-electric power (HEP).
- The Balbina Dam near Manaus flooded 2.400km2 of rainforest.
- New roads are also needed to transport resources causing more deforestation.

Forest is cleared by small-scale

- farmers who need to grow food for themselves & their families
- Many indigenous people are subsistence farmers. Many farmers have been settled along the trans-Amazonian Highway by the Brazilian government.

Sustainable Management of Rainforests

Uncontrolled and unchecked exploitation can cause irreversible damage such as loss of biodiversity, soil erosion and climate change.

Possible strategies include:

- Selective logging &replanting trees are only felled when they reach a particular height and trees are replaced, (e.g. in Malaysia)
- Education ensuring people understand the impacts of deforestation
- Ecotourism tourism that promotes the environments & conservation (e.g. Monteverde reserve, Costa Rica)
- Conservation- setting up national parks & nature reserves
- Reducing debt- debt can be cancelled by HICs if LICs protect their TRFs (e.g. USA cancelled \$25m of Peru's debt)
- International Hardwood Agreements- in place to prevent illegal logging.

Cold Environment inhabitants

- Tundra: home to indigenous people and oil & gas workers in larger towns
- Polar: Mostly uninhabited, some indigenous and scientists.

Climate of Cold Environments

- Tundra: Warm months only reach a max of 10°c while winters can plunge to -50°c. Precipitation is low, less than 380mm
- Polar: very cold year round, winters tend to drop to -40°c but can reach -90°c. Very little rainfallless than 100mm a year. Antarctica is a cold desert!



Plants Animals

Adaptations Cold Environments

Most plants become dormant to survive cold, dark winters. Plants are low-growing to avoid strong winds. Shallow roots because of

permafrost. E.g. Bearberry plant.

Well insulated, they have thick fur like Polar Bears. Some animals hibernate. White coats for camouflage e.g. Arctic Fox.

Cold climate causes plants to grow slowly & decompose slowly-> so plant cover is low -> soil is low in nutrients -> limiting further plant growth

Interdependence

Opportunities and challenges for development in Alaska

Opportunities

- Energy: Over half of Alaska's income comes from the oil & gas industry.
- Mineral Resources: Gold, silver & iron ore mined. In 2015 \$154million of gold was exported from Alaska.
- Fishing: 30,000 people are employed in fishing in Alaska (10% of the population)
- Tourism: tourists are attracted by Alaska's wilderness. 2 million visit yearly brining in almost \$2.5billion.

Challenges

- Extreme Temperatures: It is very cold Prudhoe Bay's mean annual temperature is -9°c. Making working outside dangerous. Daylight hours are also low.
- Inaccessibility: Alaska is far from the rest of the US & many areas are mountainous limiting development.
- Buildings & infrastructure: Providing buildings to cope with either soft or frozen ground is expensive and difficult. Most construction only happens in summer.

Management of Cold Environments

Cold Environments are fragile & take a long time to recover. It can take centuries for them to repair.

Role of Governments Alaska passed the 1964 Wilderness Act protecting much of Alaska from development.

Technology

Trans-Alaskan Pipeline uses technology to reduce the harm of transporting oil.

Plant growth is slow- if damaged regrowth takes time. Species are highly specialised & find it difficult to adapt to change.

International Agreements The 1959 Antarctic treaty was signed by 12 nations limiting tourist numbers and ensuring no development.

Conservation Groups The WWF & Greenpeace put pressure eon governments to protect these areas.

Wilderness areas are wild natural environments that are mostly undeveloped & uninhabited e.g. Denali Park,

It is important to conserve these areas because:

Alaska.

Valuable Wilderness Areas

- The provide habitats for species that can't survive elsewhere.
- Scientists can study these areas unaffected by people. This can help preserve rare species outside protected areas.

Health and Social Care Knowledge Organiser: Component 2 Health and Social Care Services and Values

Learning Aim A: Understand the different types of health and social care services and barriers to accessing them

Learning Aim B: Demonstrate care values and review own practice

Providing good health and social care services is very important and a set of 'care values' exist to ensure this happens. Care values are important because they enable people who use health and social care services to get the care they need and to be protected from different sorts of harm.

A1 Health and social care services

- 1. Different health care services and how they meet service user needs
 - a. Primary care, e.g. dental care, optometry, community health care
 - b. Secondary & tertiary care, e.g. specialist medical care
 - c. <u>Allied health professionals</u>, e.g. physiotherapy, occupational therapy, speech and language therapy, dieticians
- 2. Different social care services and how they meet service user needs
 - a. <u>Services for children and young people</u>, e.g. foster care, residential care, youth work
 - b. <u>Services for adults or children with specific needs</u> (learning disabilities, sensory impairments, long-term health issues) e.g. residential care, respite care, domiciliary care
 - c. Services for older adults, e.g. residential care, domiciliary care
 - d. Role of informal social care provided by relatives, friends and neighbours

B1 Care values

- 1. Empowering and promoting independence by involving individuals, where possible, in making choices
- 2. <u>Respect</u> for the individual by respecting service users' need, beliefs and identity
- 3. Maintaining confidentiality
- 4. Preserving the <u>dignity</u> of individuals to help them maintain privacy and self-respect
- 5. Effective communication that displays empathy and warmth
- 6. Safeguarding and duty of care
- 7. Promoting antidiscriminatory practice
 by being aware of types
 of unfair discrimination
 and avoiding
 discriminatory
 behaviour



A2 Barriers to accessing services

- 1. Types of barriers and how they can be overcome by the service providers and users
 - a. Physical barriers, e.g. issues getting into and around the facilities
 - b. Sensory barriers, e.g. hearing and visual difficulties
 - c. <u>Social, cultural and psychological barriers</u>, e.g. lack of awareness, differing cultural beliefs, social stigma, fear of loss of independence
 - d. Language barriers, e.g. differing first language, language impairments
 - e. <u>Geographical barriers</u>, e.g. distance of provider, poor transport links
 - f. Intellectual barriers, e.g. learning difficulties
 - g. <u>Resource barriers for service provider</u>, e.g. staff shortages, lack of local funding, high local demand
 - h. <u>Financial barriers</u>, e.g. charging for services, cost of transport, loss of income while accessing services

B2 Reviewing own application of care values

- 1. Key aspects of a review
 - a. Identifying own strengths and areas for improvement against the care values
 - b. Receiving feedback from teacher or service user about own performance
 - c. Responding to feedback and identifying ways to improve own performance

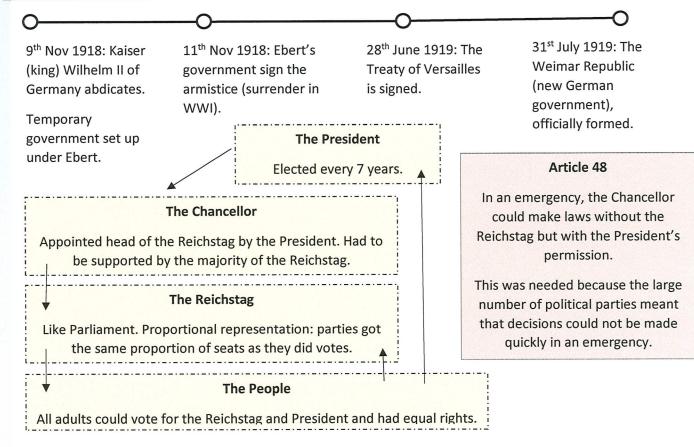


Medicine in WWI

Trenches	The place where soldiers would fight		
	and live while at the front. They		
	included dug outs for sleeping in, and		
	duckboards for standing on.		
Battles	Most battles in WWI had little		
	movement from either side and		
	thousands of casualties.		
Transport of	Stretcher bearers, motor, horse-		
injured	drawn, barge, and train ambulances.		
soldiers			
Chain of	The system for dealing with injured		
evacuation	soldiers. The Regimental Aid Post was		
	closest to the front line, followed by:		
	dressing stations, casualty clearing		
	stations, then base hospitals.		
Trench Foot	Painful swelling of the feet caused by		
	standing in cold water/mud.		
Gangrene	Infection caused by lack of blood to		
	an area.		
Trench	Spread by lice, with flu-like		
Fever	symptoms.		
Shellshock	A mental illness (like PTSD).		
Gas	Including chlorine, phosgene, and		
	mustard. It affected the eyes and		
	lungs and could be deadly.		
X-Rays	Base hospitals had x-rays, and there		
	were 6 mobile x-rays in a van.		
Blood	Routinely used by 1918. New		
Transfusions	solutions for storage and transport.		
Thomas	A device to keep the leg still, to		
Splint	prevent the need for amputation.		
Brain	20% of wounds to the face / head /		
surgery	neck. Cushing developed new		
	techniques.		
Plastic	First developed by Harold Gillies for		
Surgery	injured soldiers.		

Year 11 History: Term 1

WWI Medicine and Weimar Germany



Terms of the Treaty of Versailles:

Blame – Article 231 forced Germany to take the blame for World War I.

Reparations – Germany was forced to pay the allies £6.6 billion in a series of payments.

Army – Germany was forced to reduce their army to only 100,000 men, 6 battleships, no submarines or air force. They also had to demilitarise the Rhineland (area of Germany which bordered France).

Territory – Germany lost all colonies it had in Africa and the East, as well giving Alsace Lorraine to France.

Diktat – Germany was not allowed to refuse any of the terms of the Treaty.

Political Problems facing the Weimar Republic (1919-1923):

- The **Treaty of Versailles** was considered 'dolchtoss' (a stab in the back).
- Too many **political parties** (e.g. the KPD, SPD, DVP, NSDAP) meant that no one party had a majority in the Reichstag, making laws difficult to pass.
- The Spartacist Revolt (1919): When the popular chief of police in Berlin was sacked by Ebert, the far left thousands of communists (the KPD) protested in the streets. Ebert had to ask the Freikorps (demobilised soldiers) to stop the protests. This included the death of the leaders, Luxemburg and Liebknecht.
- The Kapp Putsch (1920): When the Republic lost control of the Freikorps who demanded a new government and the return of the Kaiser. 5,000 Freikorps marched on Berlin. It was stopped by the workers of Berlin going on strike.
- Political violence saw 376 political assassinations between 1919-1922. This
 also wasn't helped by the armed men political parties hired to guard their
 meetings (such as the SA of the NSDAP/Nazi Party). Judges also
 undermined the government by not convicting right-wing criminals.
- The Munich Putsch (1923): When Hitler and the Nazis (NSDAP) tried to take advantage of the desperate Germans by trying to overthrow the government. They launched their attempt in a Beer Hall in Munich, before marching through the streets with their supporters. After a gun fight with the police, Hitler and other leading Nazis were arrested.

Increased wages, Increased fewer working hours More housing employment 'New Women' with Changes in the Pensions for financial freedom and standard of living veterans and war new fashion in the Weimar widows Republic Modern art movements (e.g. Equal rights for Bauhaus, Women could men and women modernism and vote from 1918 (Article 109) expressionism)

Financial Problems facing the Weimar Republic (1919-1923):

- The **Treaty of Versailles** ordered Germany to pay billions in reparations to the allies. This put financial pressure on Germany when they were already trying to rebuild after World War I.
- In January 1933, the French army invaded the Ruhr (called the occupation of the Ruhr) to seize the coal produced there. The German government ordered the workers there to go on strike, and continued to pay them by printing more money.
- In printing money for the striking workers in the Ruhr, the value of the German mark dropped, leading to the prices of products increasing, and the government having to print more money. This cycle is called hyperinflation (with a loaf of bread costing 1 mark in 1919, and 200,000 billion at the height of hyperinflation).

Nov. 1923 – Stresemann set up a new currency (the **Rentenmark**) to stop hyperinflation.

1925 – The **Locarno Pact** was agreed where Germany accepted their borders from the TOV.

1928 – The **Kellogg-Briand Pact** was agreed with 61 other countries and stated they would not use war to achieve foreign policy aims.

During the recovery of Germany between 1923-29, the Nazis struggled to gain support from the German people. These were known as the **Lean Years**.

Stresemann's Solutions

1924 – The **Dawes Plan** was agreed with US banks to give German industry a \$25 billion loan.

1926 – Germany was accepted in the **League of Nations.** This organisation would meet to solve world-wide problems.

1929 – The **Young Plan** was agreed which reduced reparation payments, and gave Germany longer to pay them.

Oct 1929 – The **Wall Street Crash** ended the Weimar Republic's recovery.

UNIT 1 – WHAT YOU NEED TO REVISE

- 1.1.1 Functionality of different hardware devices
- 1.1.2 Functionality of different software
- 1.1.3 Services provided by IT
- 1.2.1 Why data must be fit for purpose
- 1.2.2 How input data is checked for errors
- 1.2.3 How data transfers over different types of network
- 1.2.4 Different types of connectivity
- 1.3.1 Risks to information held on computers
- 1.3.2 The impact of data loss, theft or manipulation on individuals and businesses
- 1.3.3 Methods used to protect information
- 1.3.4 How moral and ethical issues affect computer users
- 1.3.5 How legal issues protect computer users
- 1.3.6 The cultural, personal and environmental impact of ICT
- 1.3.7 How a digital footprint can impact computer users

KEY WORDS

APPLICATION SOFTWARE - A program containing a set of instructions to the computer that allows the user to carry out a specific function.

ARTIFICIAL INTELLIGENCE (AI) - When computers perform tasks normally requiring human intelligence, such as problem solving, adapting according to previous experience.

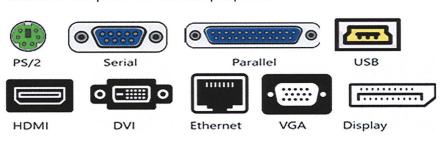
AUGMENTED REALITY - The process of superimposing a computer-generated image on a user's view of the real world. **AUTHENTICATION** - When a user confirms their unique identity on a computer system.

BIOMETRICS - Technologies that recognise human body characteristics (e.g., fingerprint) to authenticate a person's identity.

BIONICS - The science of constructing artificial systems (e.g., limbs) that have some of the characteristics of biological systems

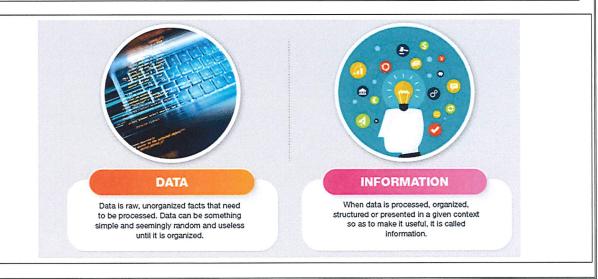
WJEC VOCATIONAL IT

1.1.1 Different ports that connect peripherals



1.1.2 The two main categories of software are application software and system software. An application is software that fulfils a specific need or performs tasks. System software is designed to run a computer's hardware and provides a platform for applications to run on top of

1.1.3 IT provides many services including • Smart TV • Gaming • Image Capture And Manipulation • Webcam Services • Social Networking: Information Needed To Create Accounts; Services Available • Music And Sound Including Downloading From The Internet And Related Issues • Mobile Phones • Banking • E-Commerce Systems • Payroll • Modern Mail Handling Methods • Control Processes (Feedback) • Robotics And Bionics • Artificial Intelligence (AI) And Expert Systems • Online Shopping And Searching For Products On Websites • Booking Online • Registration Systems



1.2.1 Quality Of Data

DATA - Data is raw facts and figures such as 12:00

INFORMATION - Information is to add context to the data. For example, the time is 12:00

KNOWLEDGE - Knowledge is when it's understood by the user for example, the time at the moment is 12:00 and my lesson started at 11.30 so I'm late.

ENCODING DATA – Encoding of data refers to the process of transforming collected data into a set of meaningful, cohesive categories. (e.g. Airport Codes) **PROS TO ENCODING DATA**: Fewer data errors. Less time spent on data entry. Greater data consistency. Less memory required.

CONS TO ENCODING DATA: Data does not always fit into a particular category. Subjective judgements which makes it hard to measure.

1.2.2 Main methods of Data Capture

- OCR. Optical character recognition (OCR) is a technique used to read data from images, PDFs, and scanned documents. ...
- ICR. Intelligent character recognition is an advanced OCR used to extract data from different handwritings. ...
- OMR....
- Barcodes....
- QR Code. ...
- Web scraping. ...
- Voice capture.

1.2.3 COMPRESSION

LOSSY COMPRESSION: Lossy compression will permanently remove data.

This can significantly reduce the size of a file.

The compromise of reducing the file size is that is can have an impact on the quality.

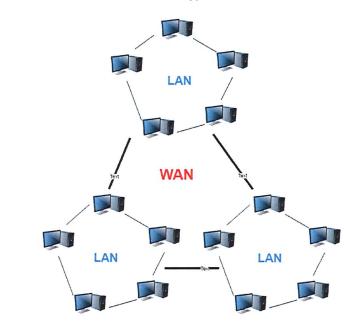
The file also becomes irreversible which means it cannot be changed.

LOSSLESS COMPRESSION: Lossless compression uses an algorithm to temporarily group data together so it can be restored into it's original form.

This means the quality of the file can be maintained.

The file is reversible which means you can continue to make changes to it.

1.2.3 How data transfers over different types of network



1.2.3 DATA VALIDATION

Data validation is a check performed by a computer to check that the data entered is reasonable and appropriate. It does not however, check the accuracy of the data – that is what data verification is for.

FORMAT CHECK: This checks that data entered has been done using the correct format. For example, the format of national insurance number is LL NN NN NN L. **LENGTH CHECK:** This checks the length of the characters entered. It's possible to set a minimum or maximum number of characters. This is found on forms where passwords must be at least 8 characters in length for example.

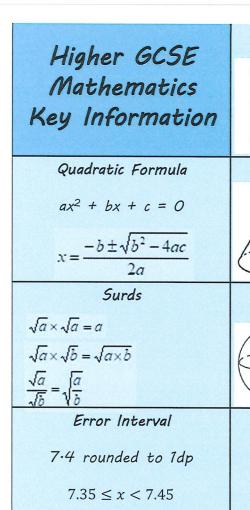
RANGE CHECK: This checks the data entered is within a certain set criteria. This could be entering a page on a web form for example.

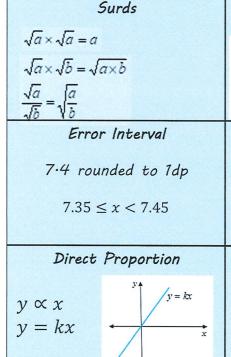
PRESENCE CHECK: This checks that data has been entered in that field. On forms you make a field a 'required field' which doesn't allow the user to go any further until they've completed that field

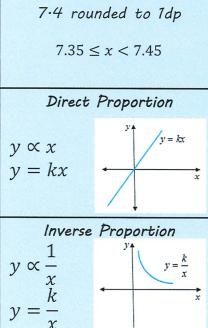
CCCF 00 11	PLOT	MEASURE	CONSTRUCT
GCSE Mathematics Command Words	Mark a point on a graph using a cross	Find the length or a line or size of an angle using	Create an accurate drawing using the correct maths equipment
		a ruler or protractor	Think ruler and compass
EXPAND	GIVE or JUSTIFY	REPRESENT	FIND
Remove brackets from and algebraic expression	Use reasons to explain thinking	Display information in a graph or chart	Work out an answer to a problem
3(x+4) = 3x + 12	Think angle facts line 'angles at a point sum to 360°'		Think averages - find the mode
SOLVE	SHOW	EVALUATE or CALCULATE or WORK OUT	CONVERT
Find the solution to an equation such as	Give all working to get the answer	Find the value (calculate)	Change from one form to another Think units and fractions,
4x - 3 = 24		Evaluate 4^3 : $4 \times 4 \times 4 = 64$	decimals & percentages
EXPLAIN	SIMPLIFY	ROUND	ORDER
Give reasons to support the decision or answer	Make an algebraic expression simpler by collecting like terms OR	Make a number simpler but keep its value close to what is was	Use a rule to arrange
	make a ratio or fraction simpler by cancelling common factors	74.26 rounded to 1dp is 74.3	Think ascending and descending
DRAW	FACTORISE	ESTIMATE	WRITE
Create a neat drawing that show key features	Put brackets into an algebraic expression	Give a sensible approximate answer using rounding	Give the answer
	$x^2 + 6x + 8 = (x+2)(x+4)$		
SKETCH	DESCRIBE	LABEL	COMPLETE
Create a rough drawing that shows key features (no need to use a ruler or compass)	Use correct maths vocabulary to explain key features	Attach the correct name to the diagram	Fill in missing values in a table or on a diagram
	Think transformations	35	

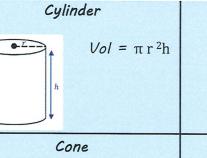
Foundation	Area of a Rectangle	Speed	Percentage Change	Sinθ
GCSE Mathematics Key Information	$A = l \times w$	DST	$\frac{actual\ change}{original} \times 100$	$Sin\theta = \frac{Opp}{Hyp}$
Prime Number A number that has exactly 2 factors 2, 3, 5, 7, 11, 19,	Area of a Triangle $A = \frac{1}{2} \times b \times h$	Density M D V	Pythagoras' Theorem $a^2 + b^2 = c^2$	$Cos\theta$ $Cos\theta = \frac{Adj}{Hyp}$ Adjacent
Square Number A number multiplied by itself $5^2 = 5 \times 5 = 25$	Area of a Parallelogram $A = b \times h$	Pressure	Metric Length Conversions 1km = 100m 1m = 100cm 1cm = 10mm	$Tan\theta$ $Tan\theta = \frac{Opp}{Adj}$ Adjacent
Cube Number A number multiplied by itself and then itself again $5^3 = 5 \times 5 \times 5 = 125$	Area of a Trapezium $A = \frac{1}{2} \times (a+b) \times h$	Volume of a Cuboid height width $V = l \times w \times h$	Metric Mass Conversions 1 tonne = 1000kg 1kg = 1000g 1g = 1000mg	Exact Values of Sin $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
Multiple The first 5 multiples of 12 are 12, 24, 26, 48 and 60	Area of a Circle $A = \pi \times r^2$ radius	Volume of a Prism length $V = area \ of \ cross - section \times length$	Metric Capacity Conversions 11 = 1000ml 11 = 100cl 1cl = 10ml	Exact Values of Cos $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Factor The factors of 12 are 1, 2, 3, 4, 6 and 12	Circumference of a Circle $C = \pi \times d$	Volume of a Cylinder radius $V = \pi \times r^2 \times h$ 36	Error Interval 7.4 rounded to 1dp $7.35 \le x < 7.45$	Exact Values of Tan $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

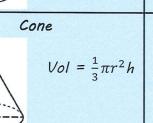
Higher GCSE Mathematics Key Information Quadratic Formula $ax^2 + bx + c = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{}$ Surds $\sqrt{a} \times \sqrt{a} = a$ $\sqrt{a} \times \sqrt{b} = \sqrt{a} \times b$ Error Interval 7.4 rounded to 1dp $7.35 \le x < 7.45$











 $Vol = \frac{4}{3}\pi r^3$

 $S \cdot A = 4\pi r^2$

Sphere

Angles in Polygons

sum interior angles

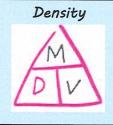
sum exterior angles = 360°

interior + exterior = 180°

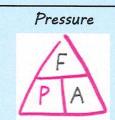
Bearings

The bearing of B from A

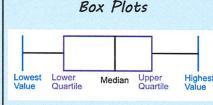
 $= (n-2) \times 180^{\circ}$

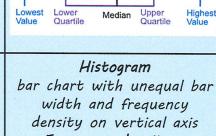


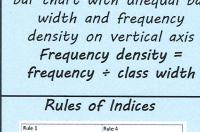
Speed

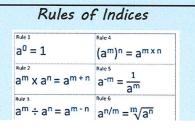








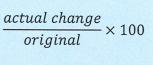


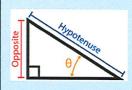


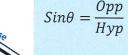


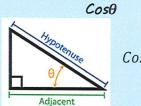
Pythagoras' Theorem

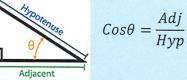
 $a^2 + b^2 = c^2$



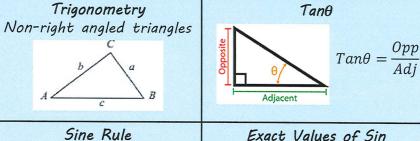


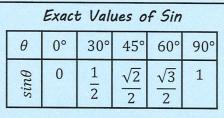






Sino





	Exact	t Valu	ues o	f Cos	
θ	0°	30°	45°	60°	90°
cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0

	Exact	Valu	ies o	f Tan	1	
θ	0°	30°	45°	60°	90°	
θ uis	0	$\frac{\sqrt{3}}{3}$	1	√3		

Cosine Rule

 $a^2 = b^2 + c^2 - 2bc \cos A$

Area Triangle



	Key Words
Blockbuster	a Hollywood movie that's made with a large budget and big stars.
Independent Film	An indie film is any feature-length or short film that is made without a major studio or big production company attached.
Marketing	the action or business of promoting and selling products or services, including market research and advertising.
Vertical Integration	Vertical integration refers to the process of acquiring business operations within the same production vertical. A company that opts for vertical integration takes complete control over one or more stages in the production or distribution of a product.
Conglomerate	a large corporation.
Subsidiaries	a company controlled by a holding company.
Horizontal Integration	Horizontal integration and vertical integration are competitive strategies that companies use to consolidate their position among competitors. Horizontal integration is the acquisition of a related business. A company that opts for horizontal integration will take over another company that operates at the same level of the value chain in an industry.
Zeitgeist	the defining spirit or mood of a particular period of history as shown by the ideas and beliefs of the time.
Globalisation	the process by which businesses or other organizations develop international influence or start operating on an international scale.
Public Service Broadcaster	Public broadcasting involves radio, television and other electronic media outlets whose primary mission is public service.
Commercial Broadcaster	Commercial broadcasting is the broadcasting of television programs and radio programming by privately owned corporate media, as opposed to state sponsorship.
Manufactured Artist	artists who don't have any input in their music, have writing camps and have a big team of people working with them to make decisions.
Authentic Artist	Artists that influence their own music and image.
Performance Video	A video that is styled to be like a performance to an audience.
Narrative Video	A video with a story.
Convergence	Technological convergence, also known as digital convergence, is the tendency for technologies that were originally unrelated to become more closely integrated and even unified as they develop and advance.
Freemium Gaming	Freemium, a portmanteau of the words "free" and "premium," is a pricing strategy by which a basic product or service is provided free of charge, but money is charged for additional features, services, or virtual or physical goods that expand the functionality of the free version of the software.
Intrinsic Narrative	Story is written for the player to play.
Extrinsic Narrative	Story can be controlled and changed by the player.
Hyperreality	an inability of consciousness to distinguish reality from a simulation of reality, especially in technologically advanced postmodern societies

	Key Theories
Connell's Theory of Gender	Subordinated Femininity: women are subservient to men and have little power. Emphasised Femininity: the idea that women must conform to the needs and desires of men, through their looks and sexual appeal. Resistant Femininity: women as resisting the stereotypes and presenting themselves as powerful. Hegemonic Masculinity: perpetuates the idea that men are dominant in society/ Stereotypical, manly man. Complicit Masculinity: men who subvert the stereotypes of men, often engaging more with 'feminine' roles such as the stay at home dad. Subordinated Masculinity: LGBTQ+. Considered to lack power in society.
Laura Mulvey's Male Gaze Theory	Laura Mulvey's Male Gaze Theory: Female images in media texts are objectified and viewed through the eyes of a heterosexual man.
Judith Butler's Theory of Gender Stereotypes	Suggests that the existence of stereotypes is due to the fact that they are repeated over and over again in the media.
Propp's Character Theory	Hero, Villain, False Hero, Donor (gives the hero something), Helper, Princess, Father, Dispatcher (sends hero on their way).
Todorov's Theory of Equilibrium	Equilibrium: state of balance. Disequilibrium: state of conflict/chaos. New Equilibrium: resolution.
Binary Opposites	opposition exists in narratives to propel a story forward.
Enigma Codes	questions/mystery exist in media texts to engage the audience.
Active Audience Theories	Suggests that audiences can respond to and interpret media texts in their own ways. Uses and Gratifications Theory: suggests audiences choose to go to media texts to gain: Personal Identity, Information, entertainment, education or social interaction. Dyer's Utopian Theory: suggests audiences go to media texts to gain a sense of escapism from their normal lives.
Passive Audience Theories	Suggests that audiences accept the messages of the media without questioning them. Hypodermic Needle Model: messages are injected into the minds of audiences, without them questioning it. Cultivation Theory: The more an audience is exposed to something, the more likely they are to believe it is true.













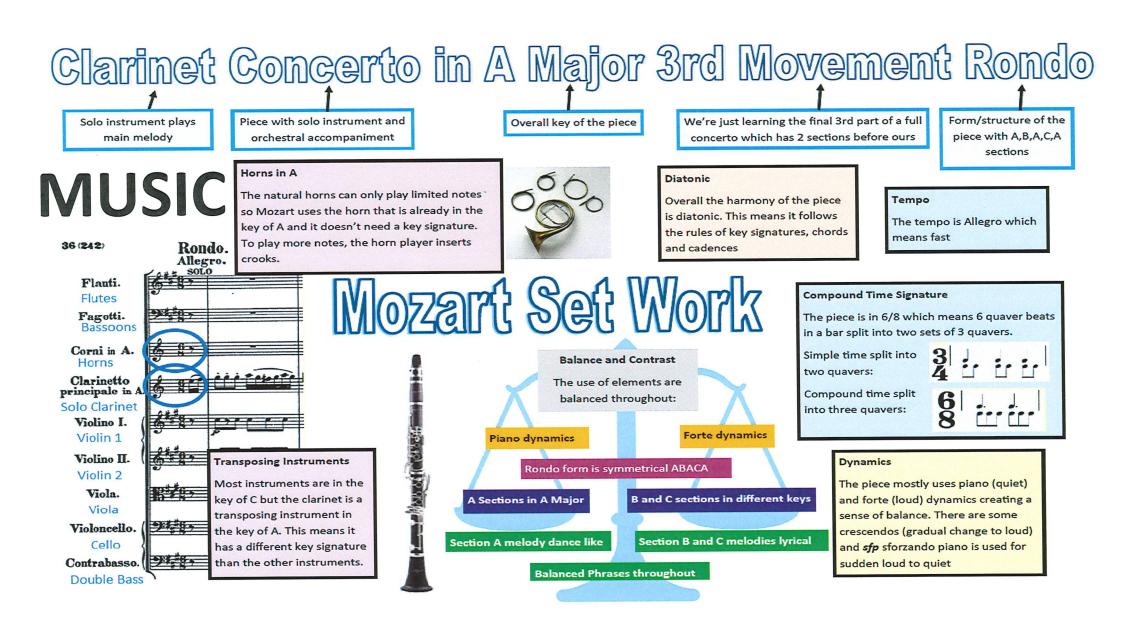






	T. d. t. dtt
Codes	Technical, written and symbolic tools used to construct or suggest meaning in media forms and products.
Genre	a style or category of art, music, or literature.
Mise-en-scene	the arrangement of the scenery, props, etc. on the stage of a theatrical production or on the set of a film. The setting or surroundings of an event.
Anchorage	Where the meaning of a media text is fixed or stabilised by a caption, shot type, costume or so on (ie: it anchors the meaning).
Semiotics	the study of signs and symbols and their use or interpretation.
Signifier	a sign's physical form (such as a sound, printed word, or image) as distinct from its meaning.
Signified	the idea or meaning being expressed by that signifier.
Denotation	the literal meaning of a sign.
Connotation	the associated meaning of a sign.
Polysemic	a sign with multiple connotations can be described as polysemic.
Representation	the way a person or social group is presented.
Conform	following the rules or expectations.
Subvert	going against the rules or expectations.
Under-representation	a person or social group who isn't represented often or enough in media.
Misrepresentation	a person or social group is represented inaccurately through media.
Stereotypes	an assumption made about a person or social group.
Direct Mode of Address	visually, looking towards the audience, verbally, addressing them with "you."
Indirect Mode of	no reference made to the audience; lack of eye contact or direct
Address	speech.
Demographic	socioeconomic factors relating to an audience.
Psychographic	specific interests or attitudes of an audience.
Geographic	the location of a specific audience.

Social Mobility	the movement between social class levels.
Cultural Capital	social assets (education, intellect, style of speech, dress, etc.) The term was coined by 1970s French sociologist Pierre Bourdieu, who developed the idea as a way to explain how power in society was transferred and social classes maintained.
Mass Audience	a large audience, made up of varying demographics, psychographics and geographics.
Niche Audience	a specific audience type with specific interests and socioeconomic factors.
Diegetic Sound	Natural, ambient sound.
Non-Diegetic Sound	Edited or added sound.
Dialogue	Speech in a narrative.
Cross Cut	Transitioning between two lines of action, indicating they are happening at the same time.
Cutting on action	Transitioning from one angle of the action, to the other, to show what has happened.
Continuity editing	Editing that creates a smooth flow to the order of events.
Dissolve	A gradual scene transition, where the end of one shot is overlapped by another.
Montage	Many scenes edited together to create a summary of events.
Jump Cut	A cut that creates a lack of continuity, by leaving out parts of the action.
Smash Cut	An abrupt cut, going from loud to quiet, or quiet to loud.
Invisible Cut	Where the cut is hidden, so the audience are unable to see it.
Shot reverse shot	Cutting between over the shoulder shots, to show a conversation taking place.
Shallow Focus	Where the subject closest to the camera is in focus.
Deep Focus	Where the subject furthest away from the camera is in focus.
Focus Pull	Pulling the focus from shallow to deep, or deep to shallow.
J-Cut	Where the audio begins before the scene in which it appears.
L-Cut	When the audio from the previous scene continues into the next scene.
CGI	Computer Generated Image.
Panning, tracking and tilting	Panning – camera stays put, but pans the scene in front. Tracking – camera moves with the subject moving in the shot, or follows the subject around. Tilting – camera stays still, but tilts up and down.



	Section A	Section B	Section A1		Section C		Section	on A3
					Section A2	Section B2		Coda
Melody	Conjunct 2 bar phrases Dance-like feel	Conjunct and disjunct 4 bar phrases Lyrical feel	Conjunct 2 bar phrases Dance-like feel	Disjunct 4 bar phrases Lyrical feel	Variation of main theme heard with just part of it	Conjunct and disjunct 4 bar phrases Lyrical feel	2 bar p	junct phrases -like feel
				All themes use	chromatic notes			
	Tonic key— A Major	Starts in Tonic key A Major	Tonic key— A Major	Starts in relative minor key– F# Minor	Changing key to lead back into tonic	Starts in Tonic key A Major	Tonic key	y− A Major
Tonality		Lots of modula- tions to different major and minor keys		Lots of circle of fifths modulations		Lots of modulations to different major and minor keys		
Harmony	Section A melody and whole section ends on perfect cadence to sound finished	Section B ends on dominant after lots of key changes to help lead back into tonic next section	Starts on tonic to re-establish tonic key A Major	Dominant chords used for quick circle of fifths key changes	Ends on dominant after key changes to help lead back into tonic next section	Ends on dominant after key changes to help lead back into tonic next section	Starts on tonic to re-establish tonic key A Major	Whole piece ends with perfect cadence to sound finished
Texture	Some unison and octaves used in accompaniment		Homophonic to end section with all parts moving together			Imitation used creating contrapuntal texture		Homophonic to end section with all parts moving together
Te			Mostly Melody and Ac	companiment texture	throughout to bring	out the solo clarinet pa	art	
Rhythm	Section A melody has anacrusis to drive melody forward	Section B melody does not have anacrusis to con- trast and help with lyrical feel	Hemiola used created by tremolo effect making it feel like a different time signature—builds tension at end of section	Section C melody has anacrusis similar to section A	Section A melody has anacrusis to drive melody forward	Two big pauses interrupt the flow of the pulse		nas anacrusis to drive y forward

Photography 450

AO2 Refine

Statement of intent

- What are you planning to do?
- Why are you planning to this? where has the idea come from?
- What techniques are you going to use?
- · What have you been influenced by?
- How does the idea link to artists and designers that you've researched?

Sketchbook Presentation Success Criteria I have:

- Used appropriate colours in the background, title and writing.
- \checkmark Used appropriate font for the title.
- ✓ Considered the layout of my page.
- Presentation is neat - nothing should be stuck in wonkily.
- ✓ Used a guillotine to trim photographs.





Annotation checklist

- · What have you done?
- · How have you done it?
- · What inspired you?
- · What else did you try?
- · Why was it successful?
- Is there anything you would change/need to do now?

Sentence starters:

- I have explored... in response to...
- I think that ... is successful because ...
- I could develop this technique by...
- · This technique wasn't successful because...
- · I could improve this technique by...

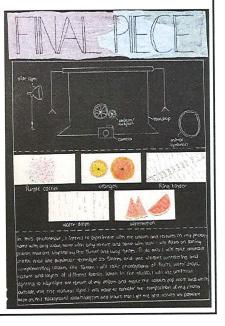
When you edit images you must ensure they...

- Link to your chosen theme / photographer make sure they are appropriate
- Edit in three different ways, at least 1 x hand rendered and 1 digital.
- Be imaginative within your selection of media and techniques don't just copy or be obvious.
- Screen shot your editing process as you go to show your process. Use labels of the type of media used for hand rendering
- Annotations must be evaluative! If you think something could be improved make sure you apply it or evidence it in your book.

You can also show refinement through; through photography (no edits) interpret with different styling/makeup/subject matter/composition

Planning a final piece:

- Hand drawn my photoshoot plan,
- Added labels to show props, lighting, camera angles, location etc.
- ✓ Included colour where appropriate.
- Annotated with a statement of intent to show where my idea has come from link to research/project.
- Drawn thumbnails to show compositions you intend to photograph.



Health & Fitness

Energy Use, Diet & Hydration

Energy Use:

- Energy is measured in Calories (Kcal)
- Average male 2500Kcal per day
- Average female 200kcal per day

Factors Effecting Energy Use:

- Age Younger individuals burn more Kcals than adults
- Gender Women burn less Kcals than males
- Exercise/intensity level -The higher the exercise intensity the more energy needed
- Height the taller you are, the more Kcals you burn each day

Nutrition - Macronutrients:

A balanced diet involves consuming each element in proportion

- Carbohydrates (55-60%) this macronutrient is the 'fuel' that provide us with energy to sustain performance. Found in Pasta, **Bread** and **Potatoes**
- Fats (25-30%) these are also used for energy, but only when stores of carbohydrate run low. Fat provides very slowly released energy. This is important for endurance activities. Found in Butter, Cheese and Chocolate
- Protein (15-20%) an essential nutrient that promotes growth and repair of muscles. Found in Eggs, Meat and Fish

Nutrition - Micronutrients

A balanced diet involves consuming each element in proportion. These are in smaller quantities to Macronutrients

- Minerals Your body needs minerals to help it function. In particular minerals increase the efficiency of carrying oxygen to muscles. Calcium can be found in Milk. Iron can be found in Meat
- Vitamins these generally contribute to general health of an athlete. The resist infection and disease and regulate chemical reactions in the body. Vitamin C can be found in Citrus Fruits

Manipulation of Diet:

consumes high quantities of

- Carb Loading Where an athlete Carbohydrates the evening prior to an event to maximise energy stores
- Protein Loading Where an athlete consumes high quantities of Protein following an event to aid recovery

Water Balance - Hydration

Carbohydrates (55-60%)

Fats (25-30%)

Protein (15-20%)

Water balance prevents dehydration

Dehydration - Excessive loss of body water interrupting the functions of the body. Dehydration can cause:

- Blood thickening which slows blood flow around the body
- Increased heart rate/irregular heart rhythm
- Increased body temperature
- Slower reaction time/poor decision making

A Balanced Diet:

A balanced diet is needed as -

- Unused energy is stored as fat which can cause obesity
- Energy stores are ready for exercise
- Nutrients are needed for energy, growth and hydration

1. Health and wellbeing

Health - State of complete mental, physical and social wellbeing and not merely the absence of disease.

Fitness:

Ability to meet the demands of the environment **Improvements in fitness will:**

- •Improve your ability to cope with the demands of your daily environment
- •Reduce the chances of you suffering injuries
- •Make it easier for you to complete physical work
- •Make you feel more content / happy

2) Sedentary Lifestyle

Sedentary Lifestyle:

A person's choice to engage in little or no physical activity.

Consequences of choosing a sedentary lifestyle are:

- •Weight Gain / become obese
- •Suffering from heart disease
- Suffering from diabetes
- Suffering from poor sleep / insomnia
- •Suffering from poor self-esteem / confidence
- •Feeling tired and lethargic
- •Having a lack of friends

Physical Health and well-being

•Relates to the bodies systems and how well they are working.

Exercising positively affects physical health and well-being as it can:

- •Improve your heart function
- •Improve the efficiency of cardiorespiratory and musculoskeletal systems
- •Reduce the risk of illness e.g. diabetes
- •Help to prevent obesity
- •Enable you to carry out everyday tasks without getting tired

Social Health and well-being

•Relates to basic human needs being met (food, shelter) as well as being able to socially interact with others in society.

Exercise positively affects social health and well-being as it can:

- •Provide opportunities to socialise and make friends
- •Encourages co-operation and team work

Mental Health and well-being

•Relates to a person's emotions and state of mind.

Exercise positively affects mental health and well-being as it can:

- •Reduce stress / tension levels.
- •Release feel-good hormones in the body such as **serotonin**.
- •Enable a person to control their emotions and work productively.

3) Energy/Calories

Calories:

Energy is measured in calories. These calories are obtained from the food and drink we consume.

Male = 2500 kcal/day Female = 2000 kcal/day

Maintaining Weight: Calories Taken in = Calories Used Weight Gain: Calories taken in is more that calories used Weight Loss: Calories taken in is less that calories used

Factors that affect calorie intake:

Age – younger people need more calories to help them grow.

After 25 the calorie needs of individuals starts to fall.

Gender – Men need more calories than women.

Height – The taller an individual the more calories they require.

Energy Expenditure – The more exercise an individual does the more calories they need.

Basal Metabolic Rate – This is now fast energy being used and varies from individual to individual.

4) Obesity

Obesity:

A term used to describe people with a large fat content, caused by an imbalance of calories consumed to energy expenditure. BMI of over 30.

Effects of obesity on Physical Health:

- Contributes to cancer
- •Causes heart disease / heart attacks
- Causes high blood pressure
- Can cause diabetes
- Causes cholesterol levels to rise

Effects of obesity on Mental Health:

- •Can lead to depression
- •Cause a loss of confidence
- Make an individual feel like they cannot contribute to society

Effects of obesity on social Health:

- Inability to socialise
- •Make people feel uncomfortable is social situations.

A method of classifying body type. Body types:

- Ectomorph
- Endomorph
- Mesomorph

5) Somatotypes

Ectomorph:

- Very thin, lean and usually tall
- Narrow shoulders, hips and chest
- Not much fat / muscle
- Long arms and legs

Activities that suit ectomorphs:

- High Jump / Pole Vault lighter so less weight to lift in the air over the bar.
- Marathon runner / Long distance runners – Lighter so less weight to carry + longer stride length so can cover larger distance with each stride.

Endomorph:

- High content of fat
- Fat round middle, thighs and upper arms Activities that suit endomorphs:
 - Sumo-wrestling large size is difficult to force out of the ring and can be used to create short powerful actions.
 - Shot Putter Extra bulk allows for a more powerful release of shot.

Mesomorph:

- Broad shoulders and thin waist (narrow hips)
- Large amount of muscle
- Strong arms and thighs
- Little body fat

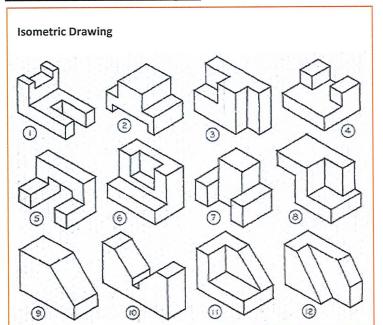
Activities that suit mesomorphs:

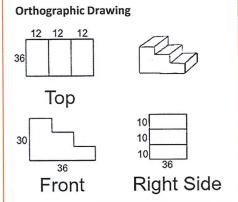
- Sprinting large arms and legs to help produce more power resulting in them running quicker.
- Weightlifter Large muscles helps provide the force required to lift heavier weights
- Rugby player Muscle helps generate force required when making contact with opponents.

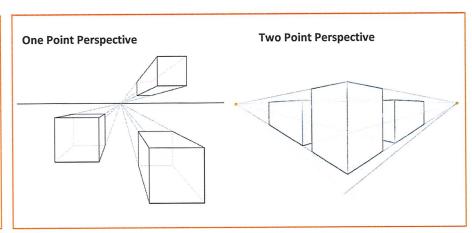
Effects of obesity on Fitness:

- •Limits a person's cardio-vascular endurance / stamina therefore making it difficult for them to take part in physical activities for a long period of time.
- •Limits a person's flexibility making it difficult for performers to use a full range of movement at a joint when performing a skill e.g. lunging forward for the shuttle in badminton.
- •Limits a person's agility making it difficult for them to change direction quickly.
- •Limits a persons speed / power making it hard to react quickly enough or produce any forceful movement.

Product Design

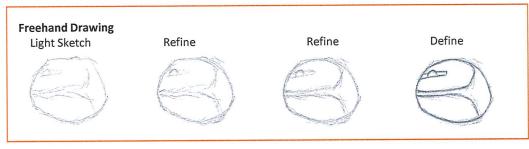


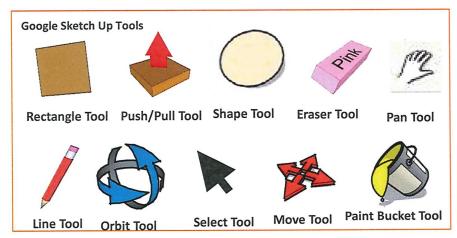




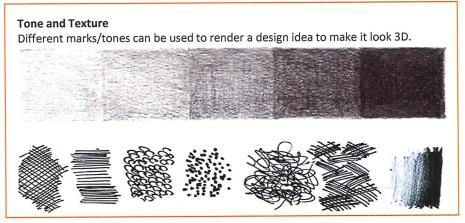
Research Types: Location Analysis Product Analysis Designer Design Movements

Museum





Key Words
Design Specification: This is a
list of criteria that your design
ideas should include.
Quality Control: The way in
which you can ensure a product
is good quality.
Hazard: An object or activity
that could cause a risk (harm).
Risk: The harm/danger that is
caused by the hazard.
Control: A way in which you can
prevent the risk from
happening.



Product Design

Final Idea Modelling:

- Remember to take pictures along the way.
- What materials could you use to model your idea?
- Did it work? Explain your answer.
- Describe the quality of your work.
- What could you do to improve and refine your idea?
- What finishes will you apply to the final product?











Annotating

All of your work must be accompanied by a brief annotation.

WHAT

What have you done? What was your inspiration?

HOW

How did you come up with your ideas? How did you create the piece? How does the piece link to your artist/designer?

WHY

Why did you make the piece, how does it link to the project? Why did you make the piece that way?

WWW/EBI

What has gone well? What can be improved? Which is the best one and why?

NEXT -

Your next steps are...?

When analysing or researching use ACCESS FM:

- Aesthetics Shape, appearance, features, colours, design.
- Cost How expensive is it/does it look/would it cost to make?
- Customer -How it is an effective product in relation to the user
- Environment How environmentally friendly is it?
- Safety Is it safe to use, was it dangerous to make?
- Size Dimensions, proportions
- Function What will it be used for? Is it suitable for it's intended use?
- Materials What materials are used & are they suitable?

Writing about the work of other artists/ designers:

Paragraph 1 - Introduction

This should be brief. Look at their work and research key information about them to provide a contextual context.

- Nationality
- Dates Are they contemporary or from a key historical movement
- Notable pieces of work and or style Avoid referring them by their first name, use a full name or surname.

Avoid irrelevant or uninteresting information.

Paragraph 2 - Form

- 1. Select one particular pieces to explore in detail.
- 2. Describe what you see as if explaining it to someone over the telephone.
- 3. Consider the formal element of line, shape, tone/value, colour, space, etc.

Paragraph 3 - Context

- · What is the piece inspired by?
- How can you tell?
- How does the artist/designer link to your project?

Paragraph 4 - Opinion

Give your thoughts and feelings about their work.

What is effective about the artwork and would you change anything? Explain why.

Paragraph 5 - Inspiration

What will you take away as inspiration for your own work? How might you respond?

	Key Words	Vords	
Arhat	A 'perfected person' who has overcome the	Four Noble Truths	Four truths the Buddha taught about
	main sources of suffering		suffering and how to overcome it
Asceticism	A lifestyle of strict self-denial – rejected by	Four Sights	Four things Siddhartha saw that inspired
	Siddhartha for the Middle Way		him to leave his life of luxury
Bodhisattva	An enlightened person who chooses to	Jakata	A book of popular tales about the life of the
	remain in samsara to teach others		Buddha
Dependent Arising	The idea that everything is dependent on	Meditation	The practice of focusing or calming the
	everything else		mind and reflecting on teachings
Dharma	The Buddha's teachings — how to reach the	Nirvana	A state of complete enlightenment which
	state of enlightenment		lies outside the cycle of samsara
Dukkha	Suffering or dissatisfaction – something	Samsara	The cycle of life, death and re-birth
	Buddhists seek to overcome		
Eightfold Path	Eight aspects of life Buddhists live by to try	Three Marks of	Three Buddhist beliefs about the truth of
	and reach enlightenment	Existence	existence
Enlightenment	A state of spiritual wisdom which arises	Three Watches of	Three realisations Siddhartha made in order
	from understanding the nature of reality	the night	to become enlightened

Bodhisattva + Arhat	Types of Buddhism	Four Noble Truths + Eightfold Path	Three Marks of Existence	Enlightenment + 3 Watches	Buddha's Life + Four Sights	and in Enlightenment A state from
Bodhisattva Mahayana Buddhists aim to become a Bodhisattva. Someone who reaches an enlightened state but chooses to remain in the cycle of samsara to help others reach enlightenment	Theravada Known as the 'lesser vehicle' as only male monks achieve enlightenment. Oldest form of Buddhism, found in southern Asia	The Four Noble Truths are what Buddha taught about suffering 1. There is suffering >> 2. Suffering has a cause >> 3. Suffering can come to an end >> 4. There is a way to end suffering One of the main causes of suffering is tanha or craving. Other causes are known as the Three Poisons of greed, hatred and ignorance. Ultimately Buddha teaches that we can and must overcome these causes of suffering in order to become enlightened and reach nirvana — a state of freedom, happiness and peace The Eightfold Path consists of eight aspects that Buddhists practise and live by in order to do this. e.g. Right speech (speaking truthfully and kindly), right mindfulness (developing awareness of the world around you) and right understanding (developing an understanding of Buddha's teachings)	They present a very different view of the world to Christianity. That suffering is inevitable, that everything impermeant and that we have no fixed, immortal soul. Dukkha	After the failure of Siddhartha's ascetic life to provide him with enlightenment Siddhartha changed the Middle Way. He meditated under a tree and was tempted by Mara who tried to distract stayed focused on meditation and reaching enlightenment. Eventually he became enlightened during the Three Watches of the Night where he underst knowledge of all his previous lives, the cycle of life, death and re-birth (samsara) and that a due to desire. After this Siddhartha became enlightened and began to be known as Buddha.	Buddha was born Siddhartha Gautama around 500BC in southern Nepal. He grew up in a life of luxury as the son of a Queen He was inspired to leave this life by the Four Sights. After this he lived an ascetic life of self-denial and pain but wasn't able to become enlightened so left it for the Middle Way between pain and luxury.	and reach enlightenment A state of spiritual wisdom which arises from understanding the nature of reality
a.	Mahayana Known as the 'greater vehicle' as anyone can become enlightened. Teaches sunyata or emptiness – nothing as a separate soul or self	Idha taught about sufferings a cause >> 3. Sufferings as a cause >> 3. Sufferings as a cause >> 3. Sufferings and craving. Other tely Buddha teaches the ened and reach nirvana aspects that Buddhists pand kindly), right mindy and kindly), right mindy (developing an unders)	f the world to Christianity. That suffer, immortal soul. Anicca The idea of impermanence – that everything constantly changes and we suffer when we resist it	tic life to provide him war a tree and was tempt aching enlightenment. aching the Three Watche uring the Green of life, death an pecame enlightened and	een. ghts. nd left	Existence Three Watches of the night
<u>avada</u> Buddl wing the Eig on' who ove ring and rea	vehicle' as lightened. ptiness – oul or self	ing g can come recauses are recauses are t we can and a state of ractise and I fulness (deve tanding of Bu	y. That suffe	ith enlighter ad by Mara ved b	The Four Sights Sid the palace were: 1. An old mar 2. An ill mar 3. A dead m 4. A holy mar problems	existence Three rea to becom
Arhat Theravada Buddhists aim to become an Arhat by following the Eightfold Path. An Arhat is a 'perfected person' who overcomes the main sources of suffering and reaches nirvana	Pure Land Mostly found in Japan — a form of Mahayana Buddhism. Based on faith in Amitabha Buddha and his paradise.	to an end >> 4. There is a way to known as the Three Poisons of d must overcome these causes of freedom, happiness and peace live by in order to do this. eloping awareness of the world uddha's teachings)	Anatta The idea that we don't have a fixed soul – there is no unchanging essence to us	nment Siddhartha chose to follow who tried to distract him, but he the where he understood: amsara) and that all beings suffer known as Buddha.	The Four Sights Siddhartha saw on his trip outside the palace were: 1. An old man – everyone ages 2. An ill man – everyone becomes ill 3. A dead man – all things die 4. A holy man – the only answer to these problems	existence Three realisations Siddhartha made in order to become enlightened

	Key Words	Vords	
Chanting	A type of worship that involves reciting	Samatha Meditation	A form of meditation focused on calming
	from Buddhist scriptures		the mind and mindfulness
Karma	An ethical principle that explains how	Shrine	A focal point for Buddhist worship and
	actions lead either to happiness or suffering		offerings in temples or at home
Karuna	Compassion – feeling concerned for the	Skilful	Actions that lead to good karma, unskilful
	suffering of others		actions lead to bad karma
Mantra	A short sequence of syllables recited during	Stupa	A tiered tower structure that is designed to
	worship		symbolise elements of Buddhist teaching
Metta	Loving-kindness — a desire for other people	Temple	The focal point of Buddhist worship — the
	to be happy		building where Buddhists gather
Parinirvana Day	A Mahayana festival commemorating	Vihara	A monastery or community where
	Buddha's passing into nirvana		Buddhists gather to meditate
Puja	Worship – it expresses gratitude and	Vipassana	A form of meditating on a teaching of
	respect for Buddha and his teachings	Meditation	Buddha to gain greater understanding
Rupa	A statue of Buddha used in worship and	Wesak	A festival celebrating the life and teachings
	meditation		of Buddha

Karma, Karuna + Metta	Five Moral Precepts + Six Perfections	Funerals + Festivals	Meditation	Places of Worship + Puja
Karma Karma is the ethical idea that a Buddhist's actions lead either to happiness or suffering. Skilful actions result in good karma and happiness. Unskilful actions result in bad karma and suffering. When a Buddhist is reborn their new life will be affected by their karma from past lives.	Five Moral Precepts These form a Buddhist ethical code. They are five principles that Buddhists try to live their life by. 1. to abstain from taking life 2. to abstain from taking what is not given 3. to abstain from sexual misconduct 4. to abstain from wrong speech 5. to abstain from intoxicants	Buddhist Funerals Buddhists usually try as spend as little money as possible on funerals as they believe the cycle of samsara means their energy moves onto a new body. In a Sky Burial Tibetan Buddhists leave the body on a mountainside as an offering to the vultures. This reflects a belief in anicca, the impermanence of existence.	Samatha Meditation This is a type of meditation that involves calming the mind and developing deepened concertation. This can be done through mindfulness of breathing where Buddhists concentrate on the pattern of their breath to relax their mind.	Places of Worship Buddhists often worship in a temple where they gather to meditate together and perform puja. A temple or vihara will have rupas (statues of Buddha), stupas (towered structures designed to symbolise Buddhist teaching) and often shrines where offerings can be made.
Karuna Ka	/e	Wesak is a Theravada Buddhist festival which celebrates the Buddha's birth, enlightenment and passing away into nirvana. It is celebrated by lighting up candles and lanterns to represent enlightenment and by attending the local temple to take part in worship or meditation.		o to **
Metta is loving-kindness, another of the four sublime states. It means desiring other people to be happy and is an attitude of warmth and kindness that Buddhists try to feel toward other people. It leads to a feeling of peace and contentment.	The Six Perfections These are six qualities that Mahayana Buddhists try to develop to become Bodhisattvas. They require practice and thought in order to develop them. They are: generosity, morality, patience, energy, meditation and wisdom.	Parinirvana Day Parinirvana Day is a Mahayana festival that commemorates the death and passing into enlightenment of Buddha. It is celebrated by Buddhists reading and studying the last writings of Buddha, meditating at home or in a temple or going on a retreat to reflect and meditate.	f B in	Puja is the name for Buddhist worship which is a ceremony that expresses gratitude and respect for Buddha and his teachings. Buddha and his teachings. Buddhists perform chanting where sacred texts are remembered and taught orally and with devotion. They also recite mantras which are short sequences of syllables that help concentrate the mind.

Bond breaking takes in energy endothermic

Bond making releases energy exothermic

YEAR 11 CHEMISTRY HEAT CHEMICAL CHANGES IN CHEMICAL REACTIONS

Exothermic reactions

Combustion Transfers chemical energy to the surroundings - usually as heat. The temperature will increase.

Respiration

sports injury

Activation energy, E_a The energy needed to start a reaction. Uses for exothermic reactions reactants Self heating cans energy Handwarmer products

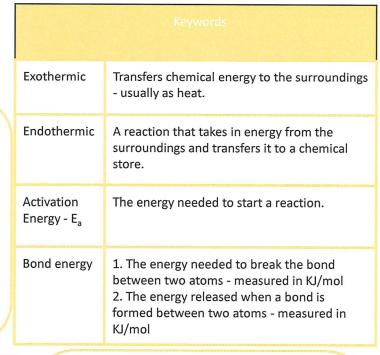
Bond Energy

Add up the amount of energy required to break all of the bonds in the reactants.

Add up the energy released when the products are formed.

Total energy required - total energy released

-ve = exothermic reaction +ve = endothermic reaction

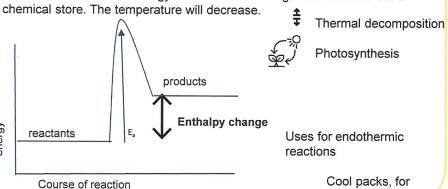


Endothermic reactions

Course of reaction

energy

A reaction that takes in energy from the surroundings and transfers it to a



The overall heat energy change for a reaction is:

- Exothermic if more heat is released in forming bonds in the products than is required to break bonds in the reactants.
- Endothermic if less heat is released in forming the bonds in the products than is required in breaking bonds in the reactants.

Bond Energy

The overall energy change in a reaction

Step 1: Draw the structural formula of the reactants and products.

Step 2: Look up the energy associated with each bond.

Step 3: Add up the amount of energy required to break all of the bonds in the reactants.

Step 4: Add up the energy released when the products are formed.

Step 5: Subtract the energy released from the energy required.

-ve = exothermic reaction

+ve = endothermic reaction

The rate of a chemical reaction can be found by measuring the quantity of a reactant used or the quantity of product formed over time.

mean rate of reaction = quantity of reactant used time taken

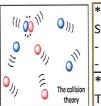
mean rate of reaction = quantity of product formed time taken

The quantity of reactant or product can be measured by the mass in grams or by a volume in cm³.

VOLUME OF GAS CH3

Slope A will have a greater rate of reaction as it is steeper.

YEAR 11 CHEMISTRY RATES OF REACTION



The units of rate of

reaction may be

given as g/s or

 cm^3/s .

Factors which affect the rates of

chemical reactions include:

The concentrations of

reactants in solution

The temperature

reactants

The surface area of solid

The presence of a catalyst

The pressure of reacting gases

*Collision theory

States that for two particles to react they must:

Collide with each other

Collide with enough energy to react

*Activation energy

The minimum energy that two particles must have when they collide in order to react.

**Effect of concentration on rate

Increasing the concentration increases the rate because there are more particles so there are more collisions and more reactions.

**Effect of surface area on rate

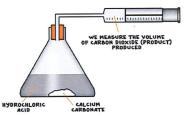
Increasing the surface area (by decreasing particle sizes) in creases the rate by exposing more particles to collisions leading to more collisions and more reactions.

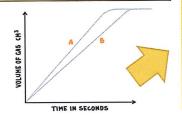
**Effect of pressure on rate

Increasing the pressure increases the rate because particles are pushed closer together so they collide more often.

**Effect of temperature on rate

Increasing the temperature increases the rate because particles move faster so they collide more, and collide with more energy to a greater proportion of collisions lead to reactions.





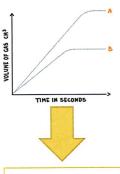
REACTANTS ACTIVATION ENERGY WITHOUT CATALYST CAT

Catalysts increase the rate of reaction by providing a different pathway for the reaction that has a lower activation energy.

A reaction profile for a catalysed reaction can be drawn as shown on the right.

Increasing the surface area, temperature or using a catalyst will increase the rate of reaction so the gradient of the line increases from B to A. Finishing at the same final volume of gas.

Catalysts speed
up the rate of
chemical
reactions
without altering
the products of
the reaction,
being itself
unchanged
chemically and
in mass at the
end of the
reaction.



Increasing the concentration provides more reacting particles therefore more product. So the gradient of the line increases and the final volume of gas increases.

other and with sufficient energy. The minimum amount of energy that particles must have to react is called the activation energy.

Collision theory explains how these factors affect rates of

reactions. According to this theory, chemical reactions

can occur only when reacting particles collide with each

TRIPLE SCIENCE CHEMISTRY

Fuels and hydrocarbons

Display formula for first four Crude oil, alkanes hydrocarbons alkanes

Ethane (C₂H₆) Methane (CH₄) Propane (C₂H₂) Butane (C₄H₁₀)

Crude oil is a mixture of hydrocarbons.

> Mineral wool soaked in

> > supply demand

> > > gases

Percentage of the original crude oil (%)

20-

Hydrocarbons are molecules of Hydrogen and Carbon only.

Porcelain chips

Hard-glass boiling tube

Supply and demand for oil fractions

Crude oil fraction

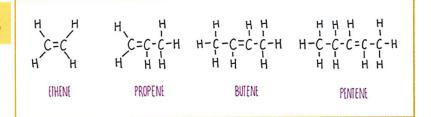
Long chain alkanes can be cracked into more useful short chain alkanes and alkenes

Homologous formula: C_nH_{2n+2}

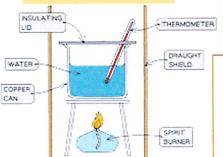
Bunsen valve fits

kerosene diesel oil fuel oil bitumen

Alkenes



Burning alcohols core practical

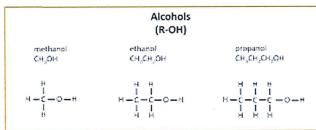


an alcohol is a type of organic compound that carries at least one hydroxyl (-OH) functional group bound to a saturated carbon atom.

A class of organic compounds in which a carbon (C)

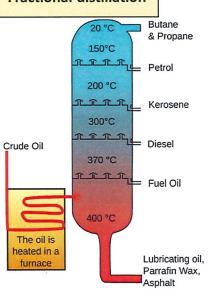
and to a hydroxyl group (-OH) by a single bond.

atom is bonded to an oxygen (O) atom by a double bond



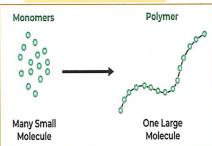
Fractional distillation

and



Polymerisation

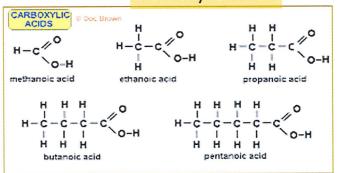
petrol



The Basic Difference Between Addition and Condensation Polymerization is that Addition Polymerization involves only one monomer and does not lead to a loss in smaller molecules e.g PVC and Teflon while Condensation Polymerization involves two different kinds of monomers and lead to loss of simple molecules like HCl or H2O

A polymer is any of a class of natural or synthetic substances composed of very large molecules, called macromolecules, which are multiples of simpler chemical units called monomers.

Carboxylic Acids

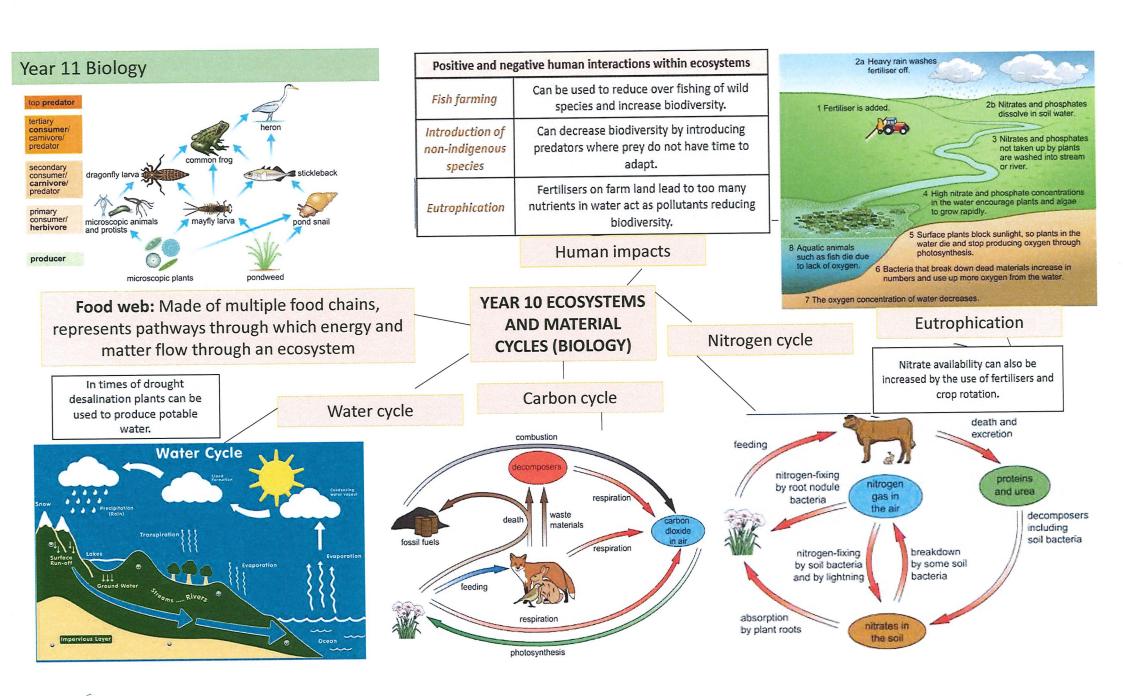


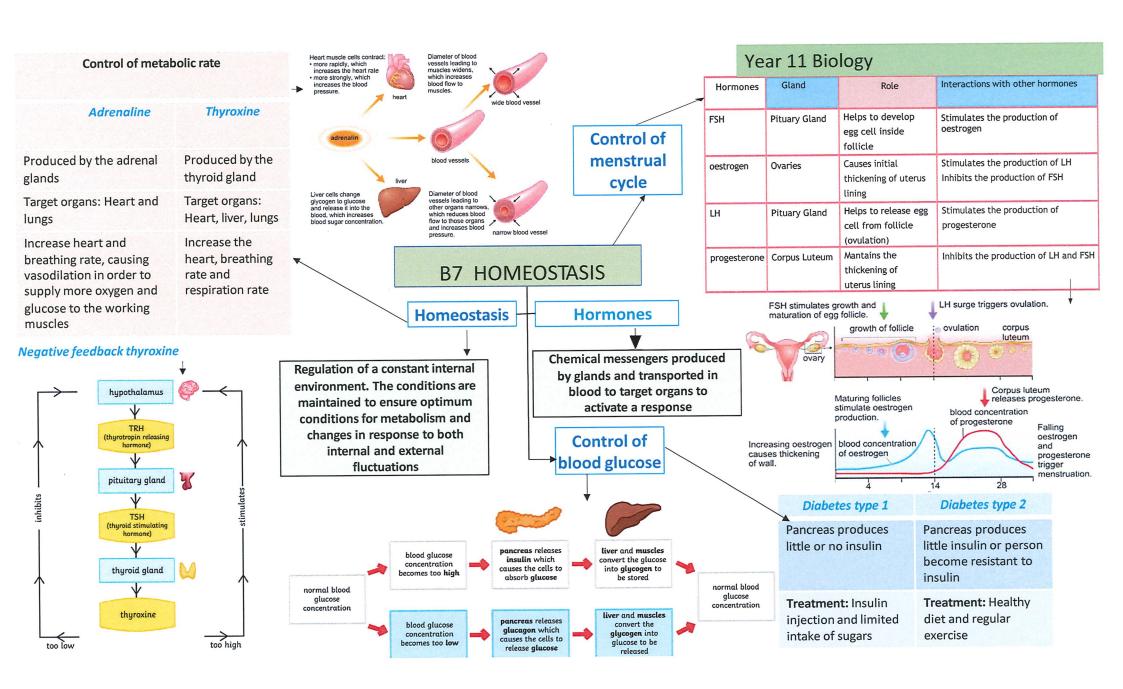
The periodic table of the elements

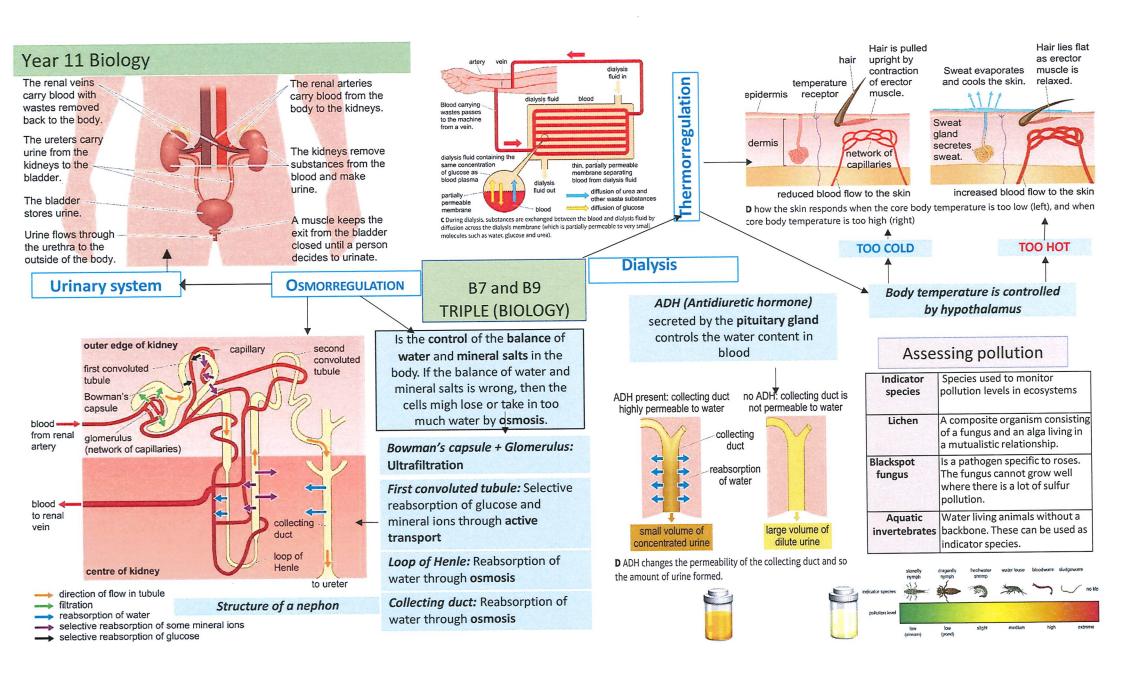
1	2			Key			1 H tydrogen					3	4	5	6	7	4 He
7 Li imum 3	9 Be beylum 4		ato	re atomic i mic symb	ool							11 B toron 5	12 C carton 6	14 N natrogen 7	16 O asygna 8	19 F tuans 9	20 Ne 10
23 Na solum 11	24 Mg magnessers 12											27 Al alumnum 13	28 Si alican 14	31 P phosphorus 15	32 S 16	35.5 CI chesine 17	40 Ar argon 18
39 K possessum 19	40 Ca assum 20	45 Sc 21	48 Ti stantum 22	51 V vanadum 23	52 Cr chiomium 24	55 Mn marganese 25	56 Fe an 26	59 Co catast 27	59 Ni 28	63.5 Cu 2000000 29	65 Zn sec 30	70 Ga 31	73 Ge germanium 32	75 As antenic 33	79 Se selenum 34	80 Br tromise 35	84 Kr krypaun 36
85 Rb naidum 37	88 Sr sportum 38	89 Y ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	91 Zr 200000000000000000000000000000000000	93 Nb siotum 41	96 Mo molyaderium 42	[98] Tc technotium 43	101 Ru odenium 44	103 Rh 1004 45	106 Pd paladum 46	108 Ag shor 47	112 Cd cadmum 48	115 In instant 49	119 Sn sn 50	122 Sb antimony 51	128 Te silutum 52	127 I iodine 53	131 Xe ******** 54
133 Cs caecum 55	137 Ba bassen 56	139 La* tertranum 57	178 Hf tuttiure 72	181 Ta santalam 73	184 W sungsteen 74	186 Re therium 75	190 Os omun 76	192 Ir ********* 77	195 Pt platours 78	197 Au gold 79	201 Hg mercury 80	204 TI stallani 81	207 Pb head 82	209 Bi bismuti 83	[209] Po polonium 84	[210] At setatre 85	[222] Rn radon 86

^{*} The elements with atomic numbers from 58 to 71 are omitted from this part of the periodic table.

The relative atomic masses of copper and chlorine have not been rounded to the nearest whole number.

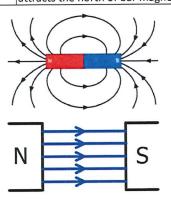




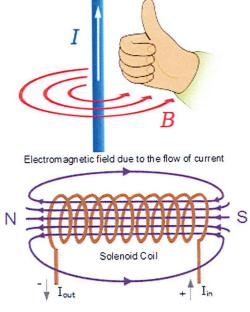


P10-11: Magnetism and electromagnetic induction

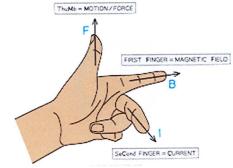
1. P	1. Magnets and magnetic fields					
Permanent	A magnet that is always magnetic.					
magnet	*					
Temporary	A magnet that is not always					
magnet	magnetic.					
Induced	When something becomes					
magnet	temporarily magnetic when close to					
	another magnet.					
Uses of	Motors, loud speakers, generators,					
magnets	door locks, knife holders.					
Magnetic	The area of magnetic force around a					
field	magnet.					
Magnetic	From north to south					
field						
direction						
Bar magnet	Curved lines going from north to					
field shape	south – see diagram below.					
Uniform	The field between two opposite					
magnetic	poles. Straight parallel field lines					
field shape	connect north to south					
Plotting a	Draw around a magnet. Place a					
magnetic	plotting compass on it and draw a					
field	small arrow to show needle					
	direction. Move a cm in that					
	direction and repeat. Connect arrows					
	to form lines. Repeat.					
Earth's	The geographic North Pole is a					
magnetic	magnetic south pole (because it					
field	attracts the north of bar magnet).					



2. El	ectromagnetism
Electromagnetism	Current flowing through a wire creates a magnetic field
	around it.
Wire magnetic	Concentric circles.
field shape	
Wire magnetic	Stronger nearer the wire and
field strength	with higher current.
Wire magnetic	Right hand grip rule – thumb
field direction	points towards negative, field
	in same direction as fingers.
Solenoid	A coil of wire with current
	running through it.
Solenoid	Outside: similar to bar magnet.
magnetic field	Inside: almost uniform
shape	
Solenoid	From negative to positive.
magnetic field	No.
direction	
Electromagnet	A temporary magnet made by
	placing an iron core inside a
	solenoid.

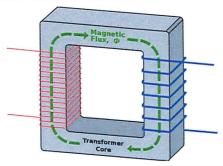


	3. Magnetic forces (HT)
Motor	Force produced when the magnetic
effect	field from a permanent magnet
	pushes a magnetic field from a wire.
Direction	Flemming's left-hand rule – index
of force	finger points in direction of magnetic
from	field, middle finger points from + to –
motor	current, thumb points in direction of
effect	force.
Force from	Is greatest when the magnetic field
motor	and electric field are at right angles,
effect	wire is longer, current is greater,
	magnet is stronger.
Magnetic	The strength of a magnetic field.
flux	Units are:
density, B	newtons per amp metre (N / A m)
Tesla, T	Same as newtons per amp metre.
Calculating	Force (N) = magnetic flux density (T) x
force of	current (A) x length (m)
the motor effect	F = B x I x L



	4. Transformers					
Transformer are	Transformer are devices that change the					
potential differer	nce of an electricity supply.					
Electromagnetic	A wire cutting through a					
induction	magnetic field causes a voltage					
	in the wire. (can move the wire					
	or the magnetic field)					
Transformer	Two coils of wire wrapped					
structure	around an iron core. Current					
	goes in the primary coil and					
	comes out from the secondary					
	coil.					

How	Changing current in the primary
transformers	coil creates a changing magnetic
work	field in the core which induces a
	current in the secondary coil of
	higher voltage and lower current
	(or vice versa).
	Transformers only work with
	alternating current.
Conservation of	If the voltage increases, the
energy in	current decreases, so energy is
transformers	conserved since: Power =
	current x voltage
Transformer	Primary current (A) x primary
calculations	voltage (V) = secondary current
	(A) x secondary voltage (V)
	$V_p \times I_p = V_s \times I_s$



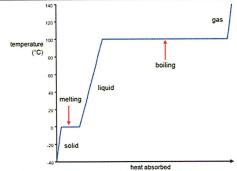
5	. Transformers and energy
National grid	The system of cables and transformers
	that transfers electricity from power
	stations to homes and businesses.
Voltage in	Power station = 25 kV
the national	Overhead cables = 400 kV
grid	Factories = 33 kV
	Homes = 230 V
Step-up	Increase voltage and decreases current.
transformer	
Step-down	Decrease voltage and increases current.
transformer	
Factors	Coils: more coils → higher voltage
affecting the	Frequency: how many times the
potential	magnetic field changes or moves past
difference	the wire
induced in a	
transformer	

P12-13: Particle model, forces and matter

	1. Particles and density				
State of matter: solid, liquid or gas.					
Changes of	Melting: solid → liquid				
state	Freezing: liquid → solid				
	Evaporation: liquid → gas				
	Condensation: gas → liquid				
	Sublimation: solid → gas				
	Deposition: gas → solid				
Solid	Particles touching, neatly ordered,				
	vibrating around a fixed point.				
Liquid	Particles touching, random order,				
	moving slowly.				
Gas	Particles widely spaced, random				
	order, moving fast.				
Forces of	Forces holding particles close to each				
attraction	other: strong in solids, weak in				
	liquids, gone in gases.				
Changing	Increasing temperature gives				
state	particles more (kinetic) energy,				
	allowing them to break the forces of				
	attraction.				
Density	The mass of 1 cm ³ of a substance.				
	Units = kg / m ³				
Density	Solid > liquid > gas, due to particles				
and state	being closer together.				
Density	Density $(kg/m^3) = mass (kg)$				
calculations	volume (m³)				
	$\rho = m / v$				



2. Ener	gy and changes of state
Thermal	The hotter an object is, the faster
energy and	its particles are moving.
motion	
Temperature	A measure of the average kinetic
	energy of the particles.
Temperature	A very small hot object has less
vs thermal	thermal energy than a very large
energy	cold object, because thermal
	energy is the energy of all the
	particles added up.
Thermal	Depends on temperature and
energy	mass of material.
Specific heat	The amount of energy required
capacity, Q	to increase the temperature of 1
	kg of a substance by 1 °C.
Specific latent	The amount of energy required
heat of	to change 1 kg of a substance (at
evaporation	its boiling point) from liquid to
	gas.
Specific latent	The amount of energy required
heat of melting	to change 1 kg of a substance (at
	its melting point) from solid to
	liquid.
Heating curve	As you heat a substance, the
	temperature rises steadily, with
	flat sections on the graph first as
	it melts, and later as it
	evaporates.



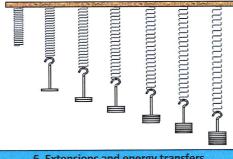
	neat absorbed
	3. Energy calculations
Temperature	Thermal energy change (J) = mass
change	(kg) x specific heat capacity
calculations	(J/kg/°C) x temperature change (°C)
	$\Delta Q = m \times c \times \Delta T$

State change	Thermal energy (J) = mass (kg) x
calculations	specific latent heat (J/kg)
1	$Q = m \times L$

4. Ga	s temperature and pressure
Temperature	A measure of the average kinetic
	energy of the particles.
Gas pressure	Every time a gas particle hits a
	surface it pushes with a small force;
	gas pressure is the sum of these
	forces.
Increasing	Gas pressure increases with
gas pressure	temperature and number of
	particles.
Pascals, Pa	The unit of pressure: $1 \text{ Pa} = 1 \text{ N} / \text{m}^2$
Absolute	The coldest possible temperature
zero, OK	when particles completely stop
	moving.
Kelvins	Measures temperatures relative to
	absolute zero: 0 K = absolute zero.
Kelvins and	A kelvin is the same size as a degree
degrees	Celsius, but
Celsius	0 K = -273°C, 273 K = 0 °C
Converting K	Subtract 273
to ^o C	
Converting	Add 273
°C to K	
Gas pressure	Gas pressure is directly
and Kelvins	proportional to temperature in K.
Absolute	Pressure is 0 Pa at 0 K because the
zero and gas	particles are not moving.
pressure	

5. Bending and stretching							
Elastic	When something returns to its						
	original shape after force is applied.						
Inelastic	When something doesn't return to its						
	original shape after force is applied.						
Elasticity	Some objects are elastic when a						
and force	small force is applied, but inelastic						
size	when a large force is applied.						
Extension	The increase in length of a spring						
	when a force is applied.						
Direct	Doubling A doubles B, a graph of B vs						
proportion	A goes through the origin.						

Metal	The relationship between force and						
spring	extension is linear and directly						
extension	proportional, but becomes non-linear						
	with large forces.						
Rubber	The relationship between force and						
band	extension is non-linear.						
extension							



6. Ex	tensions and energy transfers
Spring	A measure of the strength of a
constant	spring: units = N/m
Spring	The spring constant is the gradient of
constant	a graph of force vs extension.
and graphs	
Force and	Force = spring constant x extension
extension	F = k x
calculations	
	Force = N
	Spring constant = N/m
	Extension = m
Extension	Force is higher, spring constant is
is greater	lower
when	
Work done	The energy transferred by a force.
Spring	Energy transferred in stretching = $\frac{1}{2}$ x
energy	spring constant x extension ²
calculations	$E = \frac{1}{2} k x^2$
	Energy = J
	Spring constant = N / m
	Extension = m

iA Currar! To work!

Future Aspirations, Study, and Work



¿Tienes un trabajo a tiempo parcial?

Do you have a part time job?

Hago de canguro los fines de semana para mis vecinos. Gano alrededor de veinte libras cada semana, y a veces me dan una propina de cinco libras.

¿Dónde hiciste tus prácticas laborales? Where did you do your work experience?

Hace un par de semanas hice mis prácticas laborales en una escuela primaria. Lo pasé genial ya que quiero ser profesor cuando sea mayor.

¿Qué otras ambiciones tienes? What other ambitions do you have?

Bueno, quiero casarme y tener una familia en el futuro. Voy a conseguir un buen trabajo primero, pero después de un par de años buscaré pareja con quien construir nuestra familia.

¿Qué planes tienes para el futuro? What plans do you have for the future?

En el futuro, me gustaría trabajar como obrero con mi padre ya que tiene su propio negocio. Ayuda a mucha gente y cobra barato así que tendremos clientes fieles.

¿En qué te gustaría trabajar? ¿Por qué?

What would you like to work as? Why?

A veces pienso que me encantaría ser astronauta, pero otras veces tengo que ser realista. Sería guay como trabajo, pero será más probable que trabajaré como artista dado que me mola el dibujo.

¿Qué cosas te importan más en la vida? ¿Por qué?

What are the most important things in life for you? Why?

A mí me importa la salud y la felicidad. Si llevas una vida sana y contenta, habrás vivido una vida perfecta.

¿Qué opinas de ir a la universidad? What do you think about going to university?

No quiero ir a la universidad enseguida porque estoy harto de los estudios. Primero haré un año sabático, pero últimamente tendré que ir a la universidad para conseguir mi diploma para ser abogada.

¿Crees que es importante aprender otras lenguas? ¿Por qué (no)?

Do you think it is important to learn other languages? Why (not)?

Claro que es importante aprender otras lenguas. Hay tantas culturas alrededor del mundo y quiero conocerlas. No todos hablamos el español o el inglés.

Question you will ask:

¿Cómo ayudas con las tareas domésticas?

How do you help with the household chores?

Todos los días lavo los platos después del desayuno y de la cena. A veces paso la aspiradora, pero por lo general es la tarea de mi hermanita.

¿Cómo pasarías un año sabático? ¿Por qué? How would you spend a gap year? Why?

Buscaría un trabajo manual o práctico porque estoy harta de los estudios. En mi opinión tener la experiencia de trabajar como camarera o cocinera o hasta como jardinera es muy importante porque aprendes habilidades de la vida real.

Fancy Phrases:

PRESENTE			FUTURO	SIMPLE			PRETERITO			
hablar to speak	comer to eat	vivir to live	nadar	to swim	beber to drink	abrir to open	preguntar to ask	comer to eat	escribir to writ	
habl- o	com-o	viv-o	nadar-é		beber-é	abrir-é	pregunt-é	com-í	escrib-í	
habl-as	com-es	viv-es	nadar-ás	;	beber-ás	abrir- ás	pregunt-aste	com-iste	escrib- iste	
habi-a	com-e	viv-e	nadar-á		beber-á	abrir- á	pregunt- ó	com-ió	escrib- ió	
habl-amos	com-emos	viv-imos	nadar- e r	nos	beber-emos	abrir-emos	pregunt-amos	com-imos	escrib- imos	
habl-áis	com-éis	viv-ís	nadar-éi	s	beber-éis	abrir- éis	pregunt- ásteis	com-ísteis	escrib- ísteis	
habl- an	com-en	viv-en	nadar- án		beber-án	abrir- án	pregunt- aron	com-ieron	escrib- ieron	
The present tense is us	sed to describe what y	ou're doing at the	The future	tense is used	l to say what you will	do in the future.	The preterite is somet	imes known as the sim	ple past. It's used	
oresent moment in tin routinely, e.g: "I eat b		reakfast" or what you do					talk about events in t	he past, e.g. I asked, I d	ite, I wrote.	
PRESENTE CONTIN			CONDICI	ONAL			IMPERFECTO	IMPERFECTO		
hablar to speak	comer to eat	vivir to live	nadar	to swim	beber to drink	abrir to open	trabajar to work	comer to eat	escribir to writ	
estoy hablando	estoy comiendo	estoy viviendo	nadar-ía		beber-ía	abrir- ía	trabaj- aba	com-ía	escrib- ía	
estás hablando	estás comiendo	estás viviendo	nadar-ía	S	beber-ías	abrir-ías	trabaj- abas	com-ías	escrib-ías	
está hablando	está comiendo	está viviendo	nadar-ía		beber-ía	abrir-ía	trabaj- aba	com-ía	escrib-ía	
estamos hablando	estamos comiendo	estamos viviendo	nadar-ía	mos	beber-íamos	abrir- íamo s	trabaj- ábamos	com-íamos	escrib-íamos	
estáis hablando	estáis comiendo	estáis viviendo	nadar-ía	is	beber-íais	abrir-íais	trabaj- ábais	com-íais	escrib-íais	
están hablando	están comiendo	están viviendo	nadar-ía	n	beber- ían	abrir- ían	trabaj- aban	com-ían	escrib-ían	
the time of speaking, or when one action is happening at the same time as another. Estar+past participle PARTICIPIO PRESENTE PARTICIPIO PASADO		"would" or sometimes "should", e.g. "I would swim" FUTURO INMEDIATO (I am going to +Verb)				'were happening' e.g.I worked, I used to work, I was working PRESENTE PERFECTO				
-AR -ando h	ablando -AR -	ado hablado	voy	a trak	pajar I am going to	work	hablar to speak	comer to eat	vivir to li	
-ER -iendo co		ido comido	vas a estudiar			he hablado	he comido	he vivido		
		ido vivido	va	a beb	er		has hablado	has comido	has vivido	
	or gerund is recognise		vamos a comer			ha hablado	ha comido	ha vivido		
ending –ing .e.g. talki			vais a abrir			hemos hablado	hemos comido	hemos vivido		
To find the past partic	iple of a verb in Englis	h, just imagine that the	van	그러면 그 아이들이 얼마나 뭐 하면 하는데			habéis hablado	habéis comido	habéis vivido	
words 'I have' are in j	front of it. E.g. 'to eat'	put 'I have' in front of it	The immediate future tense can be used to express what is going to			han hablado	han comido	han vivido		
you would say 'I have	eaten' so 'eaten'.		happen in the future. E.g. I am going to work, I am going to study, I				The present perfect in English always contains 'has' or 'have' in			
			am going to drink, I am going to eat				E.g.I have spoken, I have eaten, I have lived.			
There is/are= hay			Most verbs in Spanish have six forms which correspond to their				PASADO PERFECTO			
There was/were= hab	ía	NAMES AND ADDRESS	respective pronouns and which will be listed in the following order:							
In Spanish the infinitive form of a verb always ends with the letter r			1) yo (I)				hablar to speak	comer to eat	vivir to li	
and falls into three categories:			2) tú (you-familiar a person you know well, a familiar relationship)				había hablado	había comido	había vivido	
1) those which end with -ar (ar verbs) e.g. hablar = to speak			3) él/ella/usted (he/she/you-formal a person you don't know, a				habías hablado	habías comido	habías vivido	
2) those which end with -er (er verbs) e.g. comer = to eat			formal relationship) 4) nosotros/nosotras (we)				había hablado	había comido	había vivido	
3) those which end with -ir (ir verbs) e.g. <i>vivir</i> = to live			5) vosotros/vosotras (we) 5) vosotros/vosotras (you-plural-familiar [only used in Spain])				habíamos hablado	habíamos comido	habíamos vivid	
For regular verbs in the present, preterite and imperfect tenses, you			6) ellos/ellas/ustedes (they/you-plural-formal [Spain]/you-plural [L.				habíais hablado	habíais comido	habíais vivido	
must first remove the -ar, -er or -ir endings from the infinitive form			America])				habían hablado	habían comido	habían vivid	
of the verb, and then add the correspondent endings.			It's essential that you get the correct ending for the person you're talking about in Spanish because pronouns don't tend to be used in Spanish.				The past perfect is used to indicate an action that happened ar was completed before another action took place in the past. E. had spoken/lived/eaten			

TEXTILES

Personal response

- Demonstrate what the starting point, theme or brief means to you personally.
- Establish links between the starting point and your chosen sources?
- Show links between your sources and your own work?
- Present ideas or techniques from your sources that support your developed •
- · Selected and presented your studies carefully.
- Made clear links between your work and that of other contextual reference.
- Collected images to show your inspiration and stimuli?
- Present evidence of drawing, sketching, techniques, samples, photographs and experiments with different media?
- Annotate images to explain how they fit into your development process?
- Demonstrated your understanding through correct use of textiles vocabulary?
- Shown experimentation and selection of the most successful results for your Evaluate.

- · Organised your recordings and presented them to show and explain your decisions?
- Clearly linked all of your work to your starting point?
- Clearly link your final piece with your preparatory work.
- Make sure your final piece links to your artist or designer research.
- Finish all of your preparatory work before you start your final piece -it's worth a lot more marks.
- Make sure your personal response isn't simply a larger version of your preparatory work.
- Review and refine your ideas so that you are completely happy with them.
- Complete your experiments with materials, composition and construction so that you feel in control of what you are doing before you start your final piece.

AO3

When you complete media experiments they must...

- Link to your chosen theme / research - make sure they are appropriate.
- Refine combine techniques together to develop your ideas.
- Be **imaginative** within your selection of media and techniques don't just copy or be obvious.
- **Experiment** with both machine and hand techniques to develop your work.
- Annotations must be evaluative! If you think something could be improved make sure you apply it or evidence it in your book.

AO2

This includes; Annotations / planning / drawing / photography

- Extensive sample planning making connections between your idea and research/designer techniques to develop your own ideas.
- In your planning, you should show clear connections to your photographer but then develop your ideas further through trying out different composition/clothing/props/lighting.
- Drawings should be relevant to the theme you could also explore painting, digital drawing and photography.
- Annotations should make clear links between your own work and research. State clearly whether you'll use techniques again and how you will develop them.

Final Piece planning

I have done the following:

- Drawn what my sample will look like by hand/computer.
- ✓ Added labels to show different techniques.
- Included colour where appropriate.
- Annotated with a statement of intent to show where my idea has come from - link to research/project. Experimented with techniques.
- Made a toile





