

Computing Curriculum: Ash Manor School

Year 7:

Term	Topic title
Autumn 1	Collaborating Online Safely
Autumn 2	Spreadsheet Modelling
Spring 1	Hardware and Processing
Spring 2	Flowol
Summer 1	Scratch
Summer 2	Python

Year 8:

Term	Topic title
Autumn 1	Cybersecurity
Autumn 2	Computer Systems
Spring 1	Networks
Spring 2	Encryption/ Decryption and Data
Summer 1	Python
Summer 2	Python

Year 9:

Term	Topic title
Autumn 1	Python
Autumn 2	Databases
Spring 1	Turtle and HTML
Spring 2	Impacts on Society
Summer 1	Images and Sound
Summer 2	

Computing Curriculum: Ash Manor School

Year 10: Computer Science GCSE OCR J277

Term	Topic title
Autumn 1	2.1.1 Computational Thinking 2.1.2 Designing, Creating and Refining Algorithms
Autumn 2	2.2.1 Programming Fundamentals 2.2.2 Data Types 2.2.3 Additional Programming Techniques
Spring 1	2.3.1 Defensive Design 2.3.2 Testing 2.4.1 Boolean Logic
Spring 2	2.5.1 Languages 2.5.2 The Integrated Development Environment (IDE)
Summer 1	Python Challenges
Summer 2	Unit Revision

Year 11: Computer Science GCSE OCR J277

Term	Topic title
Autumn 1	System Architecture, Memory and Storage
Autumn 2	Networks, Topologies and System Security
Spring 1	System Software and Ethical, Legal, Cultural and Environmental Concerns
Spring 2	Revision
Summer 1	
Summer 2	

Year 10: IT (WJEC ICT Technical Award)

Term	Topic title
Autumn 1	How IT can be used to fulfil the needs of organisations and individuals
Autumn 2	How data and information is used and transferred
Spring 1	How data and information is used and transferred
Spring 2	Legal, moral, ethical, cultural and environmental impacts of IT and the need for cybersecurity
Summer 1	Legal, moral, ethical, cultural and environmental impacts of IT and the need for cybersecurity
Summer 2	Planning, creating, modifying and using databases

Computing Curriculum: Ash Manor School

Year 11: IT J808 Cambridge Nationals

Term	Topic title
Autumn 1	NEA Prep
Autumn 2	NEA
Spring 1	NEA Exam
Spring 2	NEA Submission
Summer 1	
Summer 2	

Required knowledge for topics found in knowledge organisers:

<https://www.ashmanorschool.com/knowledge-organisers.html>

If you would like any further, detailed knowledge you can contact Steve Coomber, the Head of Department, via this email:

scoomber@ashmanorschool.com