

Year 8 Curriculum Overview ICT

	Autumn 1 Data representation (8.1)	Autumn 2 Hardware and software (8.2)	Spring Term Improving the internet (8.3)	Python programming (8.4)	Term 3 Ready Player One (8.5)
Approximate Number of Lessons	6	6	14	6	6
Curriculum Content	Students will study how data is stored on a computer as well as the logic that is required to make them work.	Students will study what computer systems are and how they work as well as how to create simple animations.	Students will study issues surrounding the use of the internet and how to create a variety of products to explain how it can be improved.	Students will use PRIMM to study how the computational constructs can be used in Python to solve problems.	Students will study the Ethical, Legal, Cultural and Environmental concerns surrounding the use of technology.
Links to prior learning	Students will need an understanding of computational logic from year 7 and of numbers	Students will build on their understanding of software used for different tasks as well as what they learned about network hardware in year 7	Students will need an understanding of Office software and digital literacy from all previous units.	This builds on algorithms from year 7 and will also make use of students understanding of logic from data representation	Students will build on their understanding of computers from the world around them.
Cultural Capital Opportunities	Watch The Martian and The Emoji movie One minute mentor videos	Watch Wreck-it Ralph breaks the internet, The social network and The circle Visit Bletchley park or the Computing history museum in Cambridge One minute mentor videos	Watch The social dilemma, The social network and The circle Challenge misuse of the internet Discuss better uses of the internet One minute mentor videos	Myths that need debunking about programmers https://recruitingtimes.org/recruitment-and-hr-technology-news/21724/myths-need-debunking-programming-jobs/ One minute mentor videos	Watch Ready Player One, War games, The social dilemma, The social network and The circle One minute mentor videos
Assessment Focus	Online assessment covering Data rep and year 7 units out of 50 marks.	In class work assessed	Online assessment covering Data rep, hardware and software, e-safety and year 7 units out of 50 marks.	In class work assessed	Online end of year assessment covering all year 7 and 8 units out of 50 marks.
Name of Knowledge Organiser/Link to Organiser:	Data rep knowledge organiser	Hardware and software knowledge organiser	Cyber wisdom knowledge organiser	Python knowledge organiser	Ready player one knowledge organiser