



Year Group	7	Subject	Computing	Taught in	Autumn 1
Title	Basic Skills and e-Safety				
Summary	e-Safety scenarios where students need to use basic packages to create a story; eg. Comic strip creation, slideshow, DTP for leaflets/bookmarks etc. Each lesson introducing a new scenario. Students then create a product of their own choice to get across a chosen message relating to e-safety. E-Safety topics covered: Oversharing and social media and dangers of meeting offline.				
Key Skills	ICT – Use of word processor and PowerPoint for communication Digital Literacy – keyboard skills, saving work and filing of work, use of internet, e-safety Computing – Other – English and general literacy, organisation skills, discussion in pairs for e-safety issues.				
Cross-Curricular	Careers -				

Year Group	7	Subject	Computing	Taught in	Autumn 2
Title	Physical Computing – Use of BBC Micro:Bits				
Summary	Use of an online programming tool to create a block based program that is then tested on the Micro:Bit. Students start by looking at the nature of physical computing hardware and then program this to carry out a series of increasingly complex problems. Students create own Magic 8 Ball/fortune teller that reacts to user inputs. This is then built on to create music, and other game related scenarios.				
Key Skills	ICT – Digital Literacy – Computing – Use of inputs and outputs, hardware and algorithms and programming, use of variables and selection. Using a block based programming tool Other – Music sequencing and creating basic music track from notes/tones				
Cross-Curricular	Careers -				

Year Group	7	Subject	Computing	Taught in	Autumn 2
Title	Computational Thinking				
Summary	How to break down problems and solve them using computational thinking. Leads up to a national competition where students are entered for computational thinking.				
Key Skills	ICT – Digital Literacy – Computing – Computational thinking, problem solving, patterns, abstraction, algorithms Other -				
Cross-Curricular	Careers -				



Year Group	7	Subject	Computing	Taught in	Autumn 1
Title	Shop Budget and Business planning				
Summary	Students create and setup branding and advertising/leaflet for their own shop. They then create a budget for the business using a spreadsheet. The students ensure that their business is making a profit and reacts to sales data in prediction of profits etc.. Extension work – App planning for the business				
Key Skills	ICT – DTP skills and Spreadsheets (formatting, calculations, formulae etc.) Digital Literacy – Computing – Other – Enterprise discussion, Maths/numeracy: calculations and formulae/graphs etc.				
Cross-Curricular	Careers -				

Year Group	7	Subject	Computing	Taught in	Spring 1
Title	Graphics – Image Manipulation and Drawing tools				
Summary	Students use a photo manipulation package. Use of a drawing package and use to design a drawing of a plan for a room. Some use also made of drawing tool to create animated character. Extension work – App design for their business				
Key Skills	ICT – Digital Literacy – Selecting and manipulating images Computing – Understanding of pictures – bitmaps vs vector and pixels. Other – visual literacy, numeracy: pixel grids and resolution				
Cross-Curricular	Careers -				

Year Group	7	Subject	Computing	Taught in	Summer 1
Title	Video Ads				
Summary	Students work in small teams to plan, storyboard and create a video ad for a given product type. Students use a variety of tools to create and collate sound, image, video and text aspects into their final ad – this is then presented for judging.				
Key Skills	ICT – Digital Literacy – Use of digital devices, visual literacy Computing – sequencing of events and parallel tracks Other – confidence, and self-esteem, performance, teamwork				
Cross-Curricular	Careers -				

Year Group	7	Subject	Computing	Taught in	Summer 2
Title	Physical Computing – Lego Mindstorms				
Summary	Using the Lego Robot to follow a pre-defined course. Students adapt the course and design to carry out an 'obstacle' pick up at the end. (E.g. return a ball to a cup). Students set up their own challenge for another group or year group to carry out – ie. They set up the challenge cards, hint cards and possible solution.				
Key Skills	ICT – Digital Literacy – Computing – Algorithms, programming				
Cross-Curricular	Careers - Industry professionals introduce aspects of this unit via videos of the job they carry out and how it relates to the skill being introduced				