

Autumn 1			
Week Commencing	Topic	Extended learning	Assessment
6th September	File management	Set up extended folder system	Observation
12th September	Social networking	How to keep your identity secure on the Internet	Worksheet
19th September	Keep your data safe	How to avoid a phishing scam	Observation
26th September	Searching the web	How to evaluate quality of information found on the internet	Observation
3rd October	E-safety poster	Identify ways to meet an audiences needs	AR1 Assessment
10th October	Develop skills in communicating information through Desk Top Publishers. Students will independently complete an assessment to create an esafety poster aimed at a particular audience, with a particular purpose. A range of DTP skills will be expected to be shown e.g. page orientation, border art, font size, font colour, font type, use of appropriate images, persuasive language etc. Students will also sit a benchmark test.	Produce posters aimed at different audience e.g. a poster aimed at a cyberbully and a poster aimed at year 7 student experiencing cyber bullying. Here, students will be expected to evaluate their own work to identify improvements and provide critical feedback to others to help them refine and improve their work	
17th October			
Autumn 2			
Week Commencing	Topic	Extended learning	Assessment
1st November	Elements of a Computer	Suggest appropriate input and output devices for a given scenario	AR1
7th November	The CPU	Define Hz, MHz and GHz and state how these relate to the speed of the processor	Observation
14th November	Understanding binary code	Demonstrate how characters can be represented using ASCII by writing a coded message	Worksheets(s)
21st November	Binary addition	Carry out 6 and 8 bit binary addition	Observation
28th November	Storage devices	Describe how 0s and 1s are represented by pits and lands on a CD	Worksheet(s)
5th December	Convergence and new technologies	Discuss the future use of technology and the pace of change (use of Moore's Law)	Test
12th December			

Spring 1			
Week Commencing	Topic	Extended learning	Assessment
3rd January	Coding in logo	Complex shapes	Code
9th January	Coding in logo: creating a house	Call procedures from procedures	Code
16th January	Coding in logo: creating a house	Call procedures from procedures	Code
23rd January	Developing a simple flowchart program: zebra crossing/lighthouse	Develop a solution for a more complex problem	AR2
30th January	Developing a simple flowchart program: zebra 1 set of traffic lights	Develop a solution for a more complex: 2 sets of traffic lights	AR2
6th February	Understanding sensors	Automated Greenhouse - make use of a range of sensors	Flowcharts
13th February	Understanding procedures - pelican crossing	Understanding counters in loops to repeat code	Flowcharts
Spring 2			
Week Commencing	Topic	Extended learning	Assessment
27th February	Understanding procedures - pelican crossing	Understanding counters in loops to repeat code	Flowcharts
6th March	Understanding procedures - pelican crossing	Understanding counters in loops to repeat code	AR3
13th March	Understanding procedures - car park barrier assessment	Understanding counters in loops to repeat code	
20th March	Understanding procedures - car park barrier assessment	Understanding counters in loops to repeat code	Car park flowchart
27th March	Introduction to Data Handling - database terminology and definitions	Examples of real life databases	Filter worksheet
3rd April	Introduction to Data Handling - filtering in excel	Advanced filters (AND/OR/NOT)	AR3

Summer 1			
Week Commencing	Topic	Extended learning	Assessment
24th April	Year	Set up a fully effective student database following a design	AR3
1st May	Introduction to data handling - searching a database via queries	Advanced searches AND/OR/NOT	Filter worksheet
8th May	Introduction to spreadsheets - skills and terminology	Alphabet skills challenges	Alphabet challenges
15th May	Introduction to spreadsheets - skills and terminology	Alphabet skills challenges	Alphabet challenges
22nd May	School disco model	Advanced spreadsheet skills	Spreadsheet
Summer 2			
Week commencing	Topic	Extended learning	Assessment
5th June	School disco model	Advanced spreadsheet skills	Spreadsheet
12th June	School disco model	Advanced spreadsheet skills	Spreadsheet
19th June	Hour of code	Advanced programming skills: forms of iteration and selection	Observation
26th June	Hour of code	Advanced programming skills: forms of iteration and selection	AR4
3rd July	Light bot	Advanced programming skills: forms of iteration and selection	AR4
10th July	Intro to Python Coding - IDLE environment	Password checker	Code
17th July			Code