Subject: Computi	ing Subject Leader: L Kenvyn	Year Group: 7	AUTUMN TERM
Торіс	Key Learning Points	Key Vocabulary	Assessments
Impact of technology – Collaborating online respectfully	 End Point: To have strong ICT literacy skills with Windows OS & office applications, and understand how to communication in a safe and respectable manner online. How to create a secure and memorable password How to set a folder structure Assess the acceptably of online comments To define Cyberbullying To identify Cyberbullying To use presentation software Understand what copyright is To be able to reference Be able to use office software 	Computing Password Secure Hazards Email Recipient Network Online Comments Community Cyberbullying Presentation software	Students will be assessed formatively through the completion of recall homework tasks along with a formal end of term assessment completed under exam conditions. The assessment will largely be multiple choice and short answer questions.
Networks from semaphores to the internet	 To define Catfishing To identify common aspects of fake online profiles Know what information should not be posted online and why Know the dangers of speaking to strangers online End Point: To develop understanding and skills of utilising networks for personal needs. While being able to explain what technology is used in a network. Can explain what a personal computer is To define HTTP Explain what a network cable does Explain what a router does To define ISP To define WIFI 	Slide deck Audience Catfishing Network Protocol Personal computer Stand-alone HTTP Network cable Hub Server Router ISP Wired Wireless	The assessment will monitor understanding of essential knowledge from modules learnt so far this year.
	 To define Bandwidth Understand how internet speeds are measured Advantages and disadvantages of WIFI and wired connections Explain what information makes up a Packet payload Explain the concept of IP address's 	WiFi Bandwidth broadband IP address Packet payload	

Subject: Computi	ng Subject Leader: L Kenvyn	Year Group: 7	SPRING TERM
Торіс	Key Learning Points	Key Vocabulary	Assessments
Using media gaining support for a cause	 End Point: To develop a sound understanding of how information technology and digital literacy can be used to influence people. Able to choose appropriate software for a given task Apply the key features of a word processor to format a document Evaluate formatting techniques to understand why we format documents Demonstrate an understanding of licensing issues involving online content by applying appropriate Creative Commons licences Demonstrate the ability to credit the original source of an image Critique digital content for credibility Apply referencing techniques and understand the concept of plagiarism Evaluate online sources for use in own work Construct a blog using appropriate software Create content for a blog based on credible sources 	Application softwareStuderWord processorformaFormattingcomplFontshomeCopyrightwith alicensingassessCreative CommonsunderText wrappingThe asCroppingThe asCredibilitylargelySourceand shPlagiarismquestiReferencingThe asBlogmonit	Students will be assessed formatively through the completion of recall homework tasks along with a formal end of term assessment completed under exam conditions. The assessment will largely be multiple choice and short answer questions. The assessment will
Programming essentials in Scratch part I	 End Point: To build confidence and knowledge of key programming constructs, such as variables, selection and iteration. Compare how humans and computers understand instructions (understand and carry out) Define a variable as a name that refers to data being stored by the computer Predict the outcome of a simple sequence that includes variables Trace the values of variables within a sequence Make a sequence that includes a variable Define a condition as an expression that will be evaluated as either true or false Identify that selection uses conditions to control the flow of a sequence Create conditions that use logic operators (and/or/not) Define iteration as a group of instructions that are repeatedly executed Identify where count-controlled iteration can be used in a program Implement count-controlled iteration in a program Detect and correct errors in a program (debugging) 		monitor understanding of essential knowledge from modules learnt so far this year.

Subject: Computi	ing Subject Leader: L Kenvyn	Year Group: 7	SUMMER TERM
Торіс	Key Learning Points	Key Vocabulary	Assessments
Programming essentials in Scratch part II Modelling data spreadsheets	 End Point: To build confidence and knowledge of key programming constructs, such as abstraction and decomposition. Define a subroutine as a group of instructions that will run when called by the main program or other subroutines Define decomposition as breaking a problem down into smaller, more manageable subproblems Identify how subroutines can be used for decomposition Identify where condition-controlled iteration can be used in a program State two types of iteration Evaluate which type of iteration is required in a program Define a list as a collection of related elements that are referred to by a single name Describe the need for lists, identify when lists can be used in a program and use a list Apply appropriate constructs to solve a problem End Point: To have a strong understanding of how to model/represent data with a spreadsheet Use formatting techniques in a spreadsheet Use the autofill tool to replicate cell data Explain the difference between primary and secondary sources of data Create appropriate charts in a spreadsheet Use the functions SUM, COUNTA, MAX, and MIN in a spreadsheet Use the functions SUM, COUNTA, MAX, and Fin a spreadsheet Use the functions AVERAGE, COUNTIF, and IF in a spreadsheet Use conditional formatting in a spreadsheet 	Sequencing Subroutines Execute Variables Commands Input Process Output Expressions Conditions Selection If statements Operators Logic Iteration Debugging Data Cell Cell reference Row Column Range Autofill Formula Cell reference Primary source Secondary source Pie chart Bar chart Axis/axes Function	Assessments Students will be assessed formatively through the completion of recall homework tasks along with a formal end of term assessment completed under exam conditions. The assessment will largely be multiple choice and short answer questions. The assessment will monitor understanding of essential knowledge from modules learnt so far this year.

How parents can support learning in the subject this academic year

Encourage students to use computers at home in creative ways, from: attempting to create digital art, research interests and hobbies online, learn how to make mods for the games they like to play.

Promote the use of online revision tools such as BBC Bitesize, Seneca and GCSEPod.

Recommended Reading

- For further reading around topics covered in lessons <u>https://www.bbc.co.uk/bitesize/subjects/zvc9q6f</u>
- To further Programming skills <u>https://scratch.mit.edu/</u>
- To build digital art skills <u>https://www.photopea.com/</u>
- To learn more about computers in general <u>https://www.youtube.com/c/Techquickie/videos?view=0&sort=p&shelf_id=0</u>

Points to note

Year 7 is the start of the students journey into learning computer science. It is assumed that students have no prior knowledge and therefore this year is used to provide all students with secure key skills and knowledge in order to succeed further.

There is no textbook or revision guide used this year.