Subject: Comput	ng Subject	Leader: L Kenvyn	Year Group: 7	AUTUMN TERM
Торіс	Key Le	arning Points	Key Vocabulary	Assessments
2	Key LeDevelop ICT literacy skills with Windowstudents how to use the internet for colmanner.Create a secure and memorableSet up a folder structureAssess the acceptably of onlineDefine CyberbullyingUse presentation softwareUnderstand what copyright isBe able to referenceBe able to use office softwareDefine CatfishingIdentify common aspects of faKnow what information shouldKnow the dangers of speakingDevelop understanding and skills of utExplain what a personal comparisonDefine HTTPExplain what a network cable ofExplain what a router doesExplain what a router does	ke online profiles d not be posted online and why to strangers online ilising networks for personal needs. uter is	Key VocabularyComputingPasswordSecureHazardsEmailRecipientNetworkOnlineCommentsCommunityCyberbullyingPresentation softwareSlide deckAudienceCatfishingNetworkProtocolPersonal computerStand-aloneHTTPNetwork cableHubServerRouterISP	
	To define WIFITo define BandwidthUnderstand how internet spee	s of WIFI and wired connections es up a Packet payload	Wired Wireless 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	 Develop understanding of information technology and digital literacy skills. 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 software Word processor Formatting Fonts Copyright licensing Creative Commons Text wrapping Cropping Credibility Source Plagiarism Referencing Citation	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	 To build confidence and knowledge of key programming constructs. 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 (>,<,=) Create condition as a group of instructions that are repeatedly executed Identify where count-controlled iteration can be used in a program 	Blog Sequencing Subroutines Execute Variables Commands Input Process Output Expressions Conditions Selection If statements Operators Logic Iteration	monitor understanding of essential knowledge from modules learnt so far this year.

Subject: Comput	ing Subject Leader: L Kenvyn	Year Group: 7	SUMMER TERM
Торіс	Key Learning Points	Key Vocabulary	Assessments
Topic Programming essentials in Scratch part II Modelling data spreadsheets	Key Learning Points To build confidence and knowledge of key programming constructs. • 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 To be able to confidently model data with a spreadsheet • Identify columns, rows, cells, and cell references in spreadsheet software • Use formulas with cell references to perform calculations 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 AVERAGE, COUNTIF, and IF in a spreadsheet • Use the functions AVERAGE, COUNTIF, and IF in a spreadsheet <td>Key VocabularySequencingSubroutinesExecuteVariablesCommandsInputProcessOutputExpressionsConditionsSelectionIf statementsOperatorsLogicIterationDebuggingDataCellCell referenceRowColumnRangeAutofillFormulaCell referencePrimary sourceSecondary sourcePie chartBar chartAxis/axes</td> <td>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 o essential knowledge from modules learnt so far this year.</td>	Key VocabularySequencingSubroutinesExecuteVariablesCommandsInputProcessOutputExpressionsConditionsSelectionIf statementsOperatorsLogicIterationDebuggingDataCellCell referenceRowColumnRangeAutofillFormulaCell referencePrimary sourceSecondary sourcePie chartBar chartAxis/axes	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 o 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.