	ABINGDON PRIMARY SCHOOL – Computing Progression of Knowledge							
CURRICULUM AREA	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	Y		
KEY VOCABULARY	Digital Literacy: Choices Internet Website Computer Science: Equipment Buttons Movement Information Technology: Collect photos Count Screen Mouse Images Keyboard Paint	Digital Literacy:RulesOnlinePrivate informationEmailComputer Science:InstructionsButtonsRobotsPatternsProgramInformationTechnology:PhotographsVideoSoundDataPictogramVideosCamera stillsSoundsSpace bar	Digital Literacy:Paint effectsTemplatesAnimationDocumentsEnter/returnCaps lockBackspaceComputer Science:ForwardBackwardRight-angle turnAlgorithmSequenceDebugPredictInformation Technology:QuestionsData collectionGraphsChartsSaveRetrieve	Digital Literacy: E-safety rules Secure passwords Report abuse button Personal informationComputer Science: Sequence instructions Sequence debugging Test + improve Logo commands Sequence programmingInformation Technology: Questioning Database Construct Contribute Multimedia Presentations Alignment Brush size Repeats Amend Copy Paste	Digital Literacy:ReportSecure passwordRespectful onlinebehaviourGamingDownload filesComputer Science:SensorsOpen-endedproblemsBugs in programsComplexprogrammingInformationTechnology:Database creationDatabase searchesInaccurate dataCreating + modifyingSpecific purposePhoto modifyingKeyboard shortcutsBullet pointsSpell check	Digital L commun Informed Virus three Messagin Appropri Compute Explore p Refine pr Variable Hardware control Inputs Outputs Comman Informat Technolo Spreadsh Problem Analyse i Question Interpret Multimed Transition Hyperlink Editing to Refining		



YEAR 5

YEAR 6

l Literacy:

unication ned choices hreats ging priate password

uter Science:

e procedures procedures le vare + software ol

ts ands

nation ology:

dsheets m solving e information on data ret nedia effects tions inks g tools og

Digital Literacy:

Reporting Password protection Anonymity Reputable source Plagiarism

Computer Science:

Predicting outputs Program writing Control mimics + devices Sensors Measure input Create variables Link errors

Information Technology:

Generate Process Interpret Store Present information Plausibility Investigations Audience Atmosphere Copyright Information collection HTML code Storing

E-Safety	 To ask an adult when I want to use the internet. To tell an adult when something worrying or unexpected happens to me whilst using the internet. To talk about the amount of time I spend on a game/tablet/ device. 	 To keep my password private. I can tell you what personal information is. To tell a trusted adult when I see something that worries me. To recognise an age appropriate website. To agree to and follow internet safety rules in my classroom. 	 To explain why I need to keep my password and personal information safe. To describe the things that happen online that I must tell an adult about. I can talk about why I should go online for a short amount of time. To talk about why it is important to be kind and respectful online and in real life. To know that everyone is not who they say they are on the internet. 	 To talk about what makes a secure password and why they are important. To protect my personal information when I'm online. To report any concerns to a trusted adult. To recognise websites and games appropriate for my age. To make good choices about how long I spend online. To ask an adult before downloading files online. 	 To choose a secure password To talk about the ways in which I can protect myself from harm online. To use the safety features of a website as well as reporting concerns to a trusted adult. To know that anything I post can be seen by others online. To know I need to ask a trusted adult before I download files from the internet. I comment positivity and respectfully online.
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Digital Literacy	 To tell you about some technology that is used at home and in school. To operate simple equipment. I can an age appropriate part of the internet to play and learn. To care when holding and using technology devices. 	 To recognise the ways we use technology in our classroom. To recognise the ways we use technology in my home. To use links to websites and find information. I can begin to identify some benefits of technology. 	 To tell you why we use the technology in our classroom. To tell you why we use technology in my home. To start to understand that other people have created the information I use. To identify some benefits of using technology. EG: communication, information collecting, and creating. To talk about the differences between things on the internet and things in the real world. 	 To save and retrieve work on the internet or on my school network. To talk about the parts of a computer. To tell you ways to communicate with others online. To use search tools to find and use an appropriate website. 	 To tell whether a resource I am using is on the internet, on my school network or on my own device. To identify key words to use when searching safely on the World Wide Web. To think about the reliability of information I read on the World Wide Web. To give constructive feedback to myself and my friends.
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To describe different parts of the internet. To use different online communication tools for different purposes. To use a search engine to find information and check its reliability. To recognise and evaluate different types of information I find on the World Wide Web. To describe different parts of a webpage. To find out who the information on a webpage belongs to. To know which resources on the internet I can download and use. I can describe the ways in which websites advertise their products to me.	 To identify the different internet services I need for different purposes. To describe how information is transported on the internet. To select an appropriate tool to communicate online. To talk about the way search results are selected and ranked. To check the reliability of a website. To have an awareness of copyright.
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Computer Science	 To make a floor robot move. To use simple software to make something happen. To make choices about the buttons and icons I touch or click on. 	 To give instructions to my friend and follow their instructions to move around. To describe what happens when I press buttons on a robot. To press buttons in the correct order to make a robot do what I want it to. To describe what actions I will need to take to make something happen. To begin to use the word algorithm 	 To give instructions to my friend, using forward, backward and turn and physically follow their instructions. To tell you the order I need to make something happen and talk about this as an algorithm. To program a robot or software to do a particular task. To look at my friends' program and tell you what will happen. To use programming software to make things move. To watch a program and spot where it goes wrong and then debug it 	 To break an open-ended problem up into smaller parts. To put programming commands into a sequence to achieve a specific outcome. To test my program and recognise when I need to debug it. To use repeat commands. To describe the algorithm I will need for a simple task. To detect problems in algorithms. 	 To use logical thinking to solve an open-ended problem by breaking it up into smaller parts. To use an efficient procedure to simplify a program. To use a sensor to detect a chance which can select an action within a program. To know that I need to keep testing my program while I'm putting it together. To use a variety of tools to create a program. To recognise that an algorithm will help me to sequence more complex problems.
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To decompose a problem into smaller parts to design an algorithm used before. for a specific outcome and use this to write a algorithm. program. To refine a procedure and repeat commands to improve a program. To use a variable to increase programming output. possibilities. To change an input to a program and program. achieve a different output. To use 'if' and 'then' commands happen. to select an action. To use logical reasoning to detect and debug mistakes in a program. se logical thinking, ination and creativity tend a program.

- To deconstruct a problem into smaller steps, recognising similarities to solutions
- To explain and program each of the steps in my
- To evaluate the effectiveness and efficiency of my algorithm while I test the programming of that algorithm.
- To recognise when I need to use a variable to achieve a required
- To use a variable and operators to stop a
- To use different inputs to control a device or onscreen action and predict what will
- To use logical reasoning to detect and correct errors in a program.

•	text on a screen.	 To talk about the different ways in which information can be shown. To use technology to collect information like photos, videos and sound. To sort different kinds of information to present to others. To add information to a pictograph. To be creative with technology to create and present my ideas. To use technology to create and present my ideas. To use the keyboard to enter text. To save information in a special place and retrieve it again 	 To talk about the different ways I use technology to collect data. Eg: cameras, microscope, sound recorders. To make and save a chart or graph. To talk about the data that is shown in a chart or graph. To start to understand databases. To use technology to organise and present my ideas in different ways. To use a keyboard to add, delete and space text. To tell you about an online tool that will help me to share my ideas with other people. To save and open a file 	 To talk about the different ways data can be organised. To search a readymade database to answer questions. To collect data to help me answer a question. I can add to a database. To use a data logger and talk about the information collected. To create different effects with different tools. To combine a mixture of graphics and sound to share my ideas and learning. To use appropriate keyboard commands to amend text on my device. To use a spellchecker. To use a spellchecker. To evaluate my work. I can share my work online. 	 To organise data in different ways To collect data and identify where it could be inaccurate. To plan, create and search a database to ask questions. To choose the best way to present data. To use photos videos and sound to create an atmosphere when presenting to different audiences. To change the appearance of text to increase its effectiveness. To create, modify and present documents for a particular purpose. To use spell checker to review my work. To create a hyperlink to a resource on the internet.
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