ICT / Computing

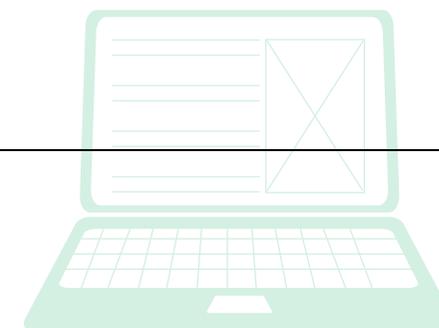| KEY STAGE ONE	KEY STAGE TWO
C1 Recognise and understand that algorithms are implemented as programs on digital devices, executing by following precise and unambiguous instructions **C2** Create and debug simple programs **C3** Use logical reasoning to predict the behaviour of simple programs	**C4** Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems **C5** Solve problems by decomposing them into smaller parts **C6** Use sequence, selection, and repetition in programs **C7** Work with variables and various forms of input and output **C8** Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs **C9** Understand computer networks including the internet, recognising how they can provide multiple services, such as the world-wide web

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	YEAR ONE / TWO
INVESTIGATION	**Ict1** Explore digital resources by using hyperlinks and simple menus **Ict2** Use the internet and other digital sources to find out about significant issues, events and people and explore real and imaginary locations
OBSERVATION	**Ict3** Collect, sort, record and represent information to inform investigations and designs **Ict4** Draw conclusions from data collected **Ict5** Identify common uses of information technology beyond school
APPLICATION	**Ict6** Give instructions to make things happen using programmable devices **Ict7** Use technology purposefully to create, capture, organise, store, manipulate, retrieve and present digital content **Ict8** Try alternatives using a range of tools and techniques to alter text, images and sounds **Ict9** Combine written text with graphics, tables, sound and images and present work appropriately **Ict10** Use ICT to communicate with unknown audiences **Ict11** Use strategies to stay safe when using ICT and the internet **Ict12** Plan, discuss and review work developed using ICT in order to improve it **Ict13** Use technology safely and respectfully, keeping personal information private **Ict14** Identify when and where to go for help and support when they have concerns about material on the internet

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	YEAR THREE / FOUR
INVESTIGATION	**Ict15** Use ICT to explore a range of number patterns and models including changing values and asking "what if?" questions **Ict16** Use ICT to explore alternative ideas in order to refine and improve outcomes and performances **Ict17** Explore alternative approaches to develop and refine work **Ict18** Save and use stored information to follow lines of enquiry
OBSERVATION	**Ict19** Identify how ICT can be used to collect and structure information, including the use of surveys, so that it can be searched and analysed **Ict20** Identify the opportunities computer networks offer for communication and collaboration **Ict21** Verify the accuracy and reliability of the information found, distinguishing between fact and opinion
APPLICATION	**Ict22** Use key words to search for and select appropriate information from the internet and other digital sources **Ict23** Capture, record and analyse data using sensors in order to support observations and investigations **Ict24** Refine sequences of instructions to control events or make things happen using ICT **Ict25** Use a variety of ICT tools to create, refine and present work in a variety of ways **Ict26** Use ICT to exchange ideas and collaborate with others remotely **Ict27** Use ICT safely and appreciate the need to keep electronic data secure **Ict28** Use features of layout, presentation and organisation in print and on screen **Ict29** Use editing skills for visual effects

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Skills Ladder

	YEAR FIVE / SIX
INVESTIGATION	**Ict30** Use ICT to explore and develop simple models by changing variables and simple formulae **Ict31** Use ICT to create and refine sequences of instructions to explore problems and make controllable systems
OBSERVATION	**Ict32** Answer questions by using ICT to identify, collect, store, analyse and present information **Ict33** Verify the accuracy and reliability of the information found online, detect bias and distinguish evidence from opinion **Ict34** Analyse, describe and discuss the effectiveness of their work with ICT **Ict35** Identify a range of ways to report concerns and inappropriate behaviour
APPLICATION	**Ict36** Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content **Ict37** Represent data from analysis in appropriate ways, including the use of graphs **Ict38** Use a variety of ICT tools to create, develop and refine presentations and performances, integrating effects to enhance outcomes **Ict39** Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information **Ict40** Organise and adjust communication according to the needs of the audience and the technology, including taking account of the quality and content of the communication **Ict41** Use a variety of ICT tools to create, refine and present work in a variety of digital and printed formats using appropriate forms and conventions **Ict42** Use ICT safely, respectfully and responsibly, managing risk and showing awareness of other users