COMPUTING

These keystones must be used alongside the National Curriculum and Development Matters.



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Computing – EYFS

1	Recognise common uses of information technology in the home and school environment.
2	Use simple technology through exploration.
3	Programme and control simple technology e.g beebots and remote-controlled cars
4	Begin to understand how to use online technologies safely.

Computing – Year 1

1	Recognise common uses of information technology in the home and school environment
2	Understand where to go for help and support when he/she has concerns about content or contact
	on the internet or other online technologies
3	Predict the behaviour of simple programs e.g. Beebots
4	Begin to understand how to use online technologies safely.

Computing – Year 2

1	Recognise common uses of information technology beyond school
2	Use technology safely and keep personal information private
3	Create and debug simple programs- Scratch
4	Debug simple programs by using logical reasoning to predict the actions instructed by the code
5	Introduce Onenote and Sway as a way of collaboration and to develop typing skills, compare the
	uses of each program
6	Import pictures and create presentations

Computing – Year 3

1 U	Use logical reasoning to explain how a simple algorithm works, including use of decomposition and
S	sequence. Recognise there may be errors.
2 U	Use software or search engines effectively and safely, including search tools. Discuss opportunities
fo	for online communication.
3 T	To present information in an effective way, using images, text formatting and copy+ paste short
C	cuts.
4 lo	Identify ways to keep safe when using ICT, how to make good choices and show respect for
ir	individuals.
5 U	Use a variety of software to collect and present data and information.
6 U	Use 'fill' and 'positions' coding tools to create structures.
7 A	Apply logical reasoning and identify errors.
8 U	Use block coding to program Microbits.
3 T cr 4 Ic 5 U 6 U 7 A 8 U	To present information in an effective way, using images, text formatting and copy+ paste short cuts. Identify ways to keep safe when using ICT, how to make good choices and show respect for individuals. Use a variety of software to collect and present data and information. Use 'fill' and 'positions' coding tools to create structures. Apply logical reasoning and identify errors. Use block coding to program Microbits.

Computing – Year 4

1	Assist in the design and writing of programs, including selection and reputation, that accomplish
	specific goals and begin to identify and correct errors in algorithms and programs (debug).
2	Create and use hyperlinks. Discuss the reliability of information on the web.
3	Make judgements in order to stay safe and respectful and become a good digital citizen whilst
	communicating with others online. Identify potential risks.
4	Use a variety of software to collect, analyse and present data and information.
5	Use 'fill' and 'positions' coding tools to create structures.
6	Apply logical reasoning and identify errors in own code.
7	Programme a robot to complete specific tasks, by creating sequencing algorithms.

Computing – Year 5

1	With support, produce algorithms by using logical and accurate sequences of instructions. Begin to
	use variables to increase programming possibilities.
2	Use technology safely and responsibly, recognising acceptable content sharing and understanding,
	safe searching, age appropriateness, cyber-bullying and how to respond to spamming.
3	Explore how a variety of digital software can enhance communication and collaboration, through
	presentations and explanations for a specific purpose.
4	Select, use and combine a combination of software to achieve a desired goal.
5	Collaboratively explore sequence, selection and repetition in programs to test complex algorithms.
6	Evaluate projects to ensure that a specific goal has been achieved and identify the programming
	improvements to be made.

Computing – Year 6

1	Independently produce algorithms by using logical and accurate sequences of instructions.
	Recognise the need to use a variable and how to use operators and variables to stop a program.
2	Select an appropriate tool online communication and collaboration. Understand and acknowledge
	copyright.
3	Explain the possible consequences of online sharing, excessive time spent online and being
	disrespectful to others online.
4	Use a variety of software on different digital devices to collect, analyse, evaluate and present data
	and information and to act upon feedback.
5	Understand the importance of digital footprints and ensure the sources researched are legitimate
6	Independently design a coding project using sequences and variables, progressing to testing and
	debugging using logical reasoning
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