

	Topic Overviews			
Year				
EYFS	Understanding the World : Technology			
1	Using Technology Purposefully	Using Technology Respectfully	Using Technology Safely	Coding
2	Using Technology Purposefully	Using Technology Respectfully	Using Technology Safely	Coding
3	Using Technology Purposefully	Using Technology Respectfully	Using Technology Safely	Coding
4	Using Technology Purposefully	Using Technology Respectfully	Using Technology Safely	Coding
5	Using Technology Purposefully	Using Technology Respectfully	Using Technology Safely	Coding
6	Using Technology Purposefully	Using Technology Respectfully	Using Technology Safely	Coding

Skills Overview

Year	Coding	Using technology purposefully	E-safety	Technology in our lives
EYFS		Knows how to operate simple equipment. Shows skill in making toys work by pressing parts or lofting flaps to achieve effects such as sound, movements or new images.		Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Knows information can be retrieved from computers.
1	a) understand what algorithms are b) how algorithms are implemented as programs on digital devices c) create simple programs	a) create digital content b) store a digital content c) retrieve a digital content	a) keep personal information private know where to go for help	a) recognise common uses of information technology beyond school
2	a) understand what algorithms are b) how algorithms are implemented as programs on digital devices c) create and debug simple programs d) use logical reasoning to predict the behaviour of simple programs	a) create digital content b) store a digital content c) retrieve a digital content d) organise digital content e) manipulate digital content	b) keep personal information private know where to go for help	a) recognise common uses of information technology beyond school
3	a) design, write and debug programs that accomplish specific goals. b) controlling or simulating physical systems c) use logical reasoning to explain how some simple algorithms work work with various forms of input and output	a) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content b) select, use and combine a variety of software (including internet services) on a range of digital devices c) design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	a) use technology safely, respectfully and responsibly; b) recognise acceptable/unacceptable behaviour; c) identify a range of ways to report concerns about content and contact.	a) understand computer networks including the internet; b) how they can provide multiple services, such as the world wide web; c) the opportunities they offer for communication and collaboration

4	a) design, write and debug programs that accomplish specific goals. b) controlling or simulating physical systems c) use logical reasoning to explain how some simple algorithms work d) work with various forms of input and output	a) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content b) select, use and combine a variety of software (including internet services) on a range of digital devices c) design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	a) use technology safely, respectfully and responsibly; b) recognise acceptable/unacceptable behaviour; c) identify a range of ways to report concerns about content and contact.	a) understand computer networks including the internet; b) how they can provide multiple services, such as the world wide web; c) the opportunities they offer for communication and collaboration
5	a) design, write and debug programs that accomplish specific goals. b) controlling or simulating physical systems c) solve problems by decomposing them into smaller parts d) use logical reasoning to explain how some simple algorithms work e) use sequence, selection, and repetition in programs work with various forms of input and output	a) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content b) select, use and combine a variety of software (including internet services) on a range of digital devices c) design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	a) use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; b) identify a range of ways to report concerns about content and contact.	a) understand computer networks including the internet; b) how they can provide multiple services, such as the world wide web; b) the opportunities they offer for communication and collaboration
6	a) design, write and debug programs that accomplish specific goals. b) controlling or simulating physical systems c) solve problems by decomposing them into smaller parts d) use logical reasoning to explain how some simple algorithms work e) use sequence, selection, and repetition in programs f) work with variables	a) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content b) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	a) use technology safely, respectfully and responsibly; b) recognise acceptable/ unacceptable behaviour; c) identify a range of ways to report concerns about content and contact.	a) understand computer networks including the internet; b) how they can provide multiple services, such as the world wide web; b) the opportunities they offer for communication and collaboration

	g) use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs			
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