?	CO	MPUT	ING CU	RRICU	LUM (OVERV	EW				
			Year 1					Ye	ear 2		
KEY STAGE 1 - SUBJECT CONTENT Scheme of Work – Switched on Computing National Curriculum	We are celebrating	We are treasure hunters	We are storytellers	We are personal trainers	We are painters	We are detectives	We are astronauts	We are researchers	We are games testers	We are photographers	We are zoologists
Principles and concepts of computer science - understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions		✓					×		✓		
Analyse and solve problems by writing programs - create and debug simple programs		✓					√		✓		
Analyse and solve problems by writing programs - use logical reasoning to predict the behaviour of simple programs		~					√		✓		
Responsible, competent and confident users of ICT use technology purposefully to create, organise, store, manipulate and retrieve digital content	✓		~	~	~	~		✓		✓	•
Responsible, competent and confident users of ICT - recognise common uses of information technology beyond school	√	~	~	~	~	✓		√		~	v
Responsible, competent and confident users of ICT - use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.						~		×		×	



COMPUTING CURRICULUM OVERVIEW

			Year 3					V	ear 4		
	M/a ara	We are	1	M/o oro	We are	We are	M/o oro	We are		M/o are toy	M/o oro
KEY STAGE 1 - SUBJECT CONTENT Scheme of Work – Switched on Computing National Curriculum	We are program mers	bug fixers	We are presenters	We are opinion pollsters	we are network engineers and internet aware	co- authors	We are meteorologi sts/ we are presenters	we are software developers	We are HTML editors	We are toy designers	We are musicians
Analyse and solve problems by writing programs - design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	~	×						~		~	~
Analyse and solve problems by writing programs - design use sequence, selection, and repetition in programs; work with variables and various forms of input and output	~	√						~		√	×
Principles and concepts of computer science - use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	~	×						×		•	
Responsible, competent and confident users of ICT - understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration					~	V			✓		
Responsible, competent and confident users of ICT - use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content			√		~	~	√				
Responsible, competent and confident users of ICT / Analyse and solve problems by writing programs 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			V	~		V	~	Ý			~
Responsible, competent and confident users of ICT use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.			√	~	V	~	~		~		



COMPUTING CURRICULUM OVERVIEW

	CONTR		CONN	COLOIV	IOVERV				
			Year 5				Year 6 – i-c	ompute SoW	
KEY STAGE 1 - SUBJECT CONTENT Scheme of Work – Switched on Computing National curriculum	We are game developers	We are architects	We are bloggers	We are web developers	We are cryptographe rs	iProgram	iSafe	iWeb / iNetwork	іАрр
Analyse and solve problems by writing programs - design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	✓	~			×	✓ 			~
Analyse and solve problems by writing programs - design use sequence, selection, and repetition in programs; work with variables and various forms of input and output	~	~			✓	~			×
Principles and concepts of computer science - use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	✓	~			✓	~			✓
Responsible, competent and confident users of ICT understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration			~					×	~
Responsible, competent and confident users of ICT use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content			✓	~			√	¥	
Responsible, competent and confident users of ICT / Analyse and solve problems by writing programs - 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	~	✓	✓ 	✓ 			✓ ✓	×	✓
Responsible, competent and confident users of ICT - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.				✓ 			✓ 	Ý	V



Curriculum Drivers Subject: Computing

Opportunities to develop the talents/skills of those pupils who have a particular intere computing/coding/technology. Challenge pupils to think about online safety and the appropriate use of technology – of their knowledge to real life situations, giving them strategies to deal with situations as	ct in
Challenge pupils to think about online safety and the appropriate use of technology – their knowledge to real life situations, giving them strategies to deal with situations as	51 111
Challenge pupils to think about online safety and the appropriate use of technology – their knowledge to real life situations, giving them strategies to deal with situations as	
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their knowledge to real life situations, giving them strategies to deal with situations as	
n I then knowledge to real me situations, giving them strategies to deal with situations as	they arise and encouraging
them to question the impact of what they are doing. Challenge pupils to evaluate and improve their work e.g debug their programme	
Challenge pupils to evaluate and improve their work e.g debug their programme	
0	
Provide challenging tasks for all pupil that have a clear purpose/outcome for their lear	ning and develop their
	ning and develop their
understanding of real life uses of technology.	
Challenge all pupils to develop their digital literacy skills, despite their individual starting	ng points
Individual starting points are assessed so that all pupils are included in computing less	ons and given the opportunity
to develop their digital literacy skills	
Online safety – inappropriate behaviour	
Online safety – inappropriate behaviour	
E Technology as a learning tool	
Support needs of individual pupils through use of ICT	
Resilient tortoise	
Pupils encouraged to persevere with difficult tasks, especially when debugging and im	proving algorithms and
programming.	
Independent rhino	
Pupils to develop confidence to tackle computing tasks independently without always	having to ask an adult
Encourage pupils to manage distractions which can be provided by using computers.	
Risk-taking penguin	
Pupils step up to the challenge of programming, especially with more complex tasks.	
	at to do if they find comething
Pupils to be aware of risks that shouldn't be taken when working online and know what	at to do if they find something
	it to do if they find something
that makes them uncomfortable.	a to do in they find something
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that makes them uncomfortable.	
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