



Computing Knowledge and Skills Progression



Key Learning at Scargill Primary School - National Curriculum (Essential) & Key Learning (Guidance)							
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
National Curriculum	<p>Even though Computing is not stated on the Early Years Curriculum, using technology and computing learning is used with these learning and development areas:</p> <ul style="list-style-type: none"> • Communication and language • Personal, social and emotional development • Literacy • Mathematics • Understanding the world 	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> • Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions • Create and debug simple programs • Use logical reasoning to predict the behaviour of simple programs • Use technology purposefully to create, organise, store, manipulate and retrieve digital content • Recognise common uses of information technology beyond school • 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. 		<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> • Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts • Use sequence, selection, and repetition in programs; work with variables and various forms of input and output • Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs • 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 • Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content • 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 • Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. 			
Computer Science (Taken from Purple Mash)	<ul style="list-style-type: none"> • Program a toy using forward, turn and back commands 	<ul style="list-style-type: none"> • Understand what algorithms are • Create and debug simple programs • Use logical reasoning to predict the behavior of simple programs 		<ul style="list-style-type: none"> • Design, write and debug programs that accomplish specific goals including controlling or simulating physical systems • Solve problems by decomposing them into smaller parts • Use sequence, selection and repetition in programs • Use logical reasoning to explain how some simple algorithms work and to detect and correct errors • Understand computer networks, including the internet 		<ul style="list-style-type: none"> • Design, write and debug programs that accomplish specific goals including controlling or simulating physical systems • Use sequence, selection and repetition in programs • Work with variables and various forms of input and output • Use logical reasoning to explain how some simple algorithms work and to detect and correct errors • Understand computer networks including the internet 	
Information Technology (Taken from Purple Mash)	<ul style="list-style-type: none"> • Use technology purposefully in different learning areas 	<ul style="list-style-type: none"> • Use technology purposefully to create, organise, store, manipulate and retrieve digital content 		<ul style="list-style-type: none"> • Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content 		<ul style="list-style-type: none"> • Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content • Select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analyzing, evaluating and presenting data and information. 	



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Digital Literacy (Taken from Purple)	<ul style="list-style-type: none">• Know the importance of using technology safely and talking to a trusted adult	<ul style="list-style-type: none">• Recognise common uses of information technology beyond school• 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	<ul style="list-style-type: none">• Use technology safely, respectfully and responsibly• Recognise acceptable and unacceptable behavior• Identify a range of ways to report a concern about content or contact	<ul style="list-style-type: none">• Use technology safely, respectfully and responsibly• Recognise acceptable/unacceptable behavior• Identify a range of ways to report concern about content and contact
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