High Ercall Primary School Progression in Computing							
Date: Feb 2022	Subject Lead: Rachael Prestor		eview: Summer 2023				
where work and leisure activit safely use technology, how to their substantive knowledge in Computing is embedded acros the key drivers that underpins participants in the digital work studying computing and are su	ies are increasingly transformed by technology. Children w be computational thinkers and how to program. This will su the creation of original digital content. s our curriculum due to its deep links with mathematics, PS the ethos of our school. Through a cross curricular approace d. Children will understand and know how to use computer	ill increase their <b>substantive kn</b> upport the development of <b>disc</b> SHE, science, and design and teo ch and diverse range of contexts rs in an effective, informed and	nowledge needed to participate in a rapidly changing world owledge in computing by developing an understanding of how to iplinary knowledge by allowing children to interpret and apply chnology. Computing at High Ercall encourages resilience, one of s, children become confident, independent and positive safe way. The children are encouraged to develop the <b>5Rs</b> when in a digital world. They will also develop an understanding and				
<ul> <li>is made up of three main stran</li> <li>Computer Science, th use through program</li> <li>Information Technolo</li> <li>Digital Literacy ensure workplace.</li> </ul>	nds, which are linked together and are of equal importance e core of computing, in which pupils are taught the princip ming. ogy is the application of skills. Pupils are equipped to use inf es that pupils can use, and express themselves and develop	: les of information and computa formation technology to create o their ideas through, informatic	n and communication technology, ready for the future				
By the end of Year 6, children with reading and writing	will have developed skills in all three strands of the curricul Inspiration for creative writing Read and evaluate websites for reliability Correct punctuation when typing Using spell check to correct spellings Practise grammar skills when typing, using grammar check to ensure accuracy Use synonyms feature to extend vocabulary Voice recorders to help with recall of ideas Able to self-edit quickly and easily Rearrange, improve and up-level sentences easily Use dictionary and thesaurus tools to clarify meaning/improve words Add and adapt presentation features, particularly in NF (i.e Bullet points, underlined subheadings etc)	Lum, as well as having a secure of Links to school key drivers	<ul> <li>Resilience: Use of debugging to identify mistakes and fix them, encourages a desire to solve problems, teaches independence.</li> <li>Outdoor Learning: Take photographs/videos of school grounds/wildlife etc and upload for use in software presentations or to print. Problem solving using programmable/remote-controlled toys. E.g. move through obstacle course or route planning to avoid a puddle. Google maps/earth to plan routes, find landmarks etc.</li> <li>Diversity: visual/audio aids to support learning, research different cultures and religions.</li> </ul>				

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5 and 6
Computer Science	Personal, Social and Emotional Development/Managing Self - Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. - Explain the reasons for rules, know right from wrong and try to behave accordingly.	-Understands what algorithms are -Creates simple programs - To be able to understand simple coding.	-Understands that algorithms are implemented as programs on digital devices -Understands that programs execute by following precise and unambiguous instructions -Debugs simple programs -Uses logical reasoning to predict the behaviour of simple programs	-Writes programs that accomplish specific goals -Uses sequence in programs -Works with various forms of input -Works with various forms of output	<ul> <li>-Designs programs that accomplish specific goals</li> <li>-Designs and creates programs</li> <li>-Debugs programs that accomplish specific goals</li> <li>-Uses repetition in programs</li> <li>-Controls or simulates physical systems</li> <li>-Uses logical reasoning to detect and correct errors in programs</li> <li>-Understands how computer networks can provide multiple services, such as the World Wide Web</li> </ul>	-Solves problems by decomposing them into smaller parts -Uses selection in programs -Works with variables -Uses logical reasoning to explain how some simple algorithms work -Uses logical reasoning to detect and correct errors in algorithms
Information Technology	<ul> <li>Physical Development         <ul> <li>Develop their small motor skills so that they can use a range of tools competently, safely and confidently.</li> </ul> </li> <li>Expressive Arts and Design / Creating with materials         <ul> <li>Safely use and explore a variety of materials, tools and</li> </ul> </li> </ul>	-Uses technology purposefully to create, store and retrieve digital content - To understand how technology works in the real world.	-Uses technology purposefully to organise digital content -Understand the difference between a digital and non-digital device	-Uses search technologies effectively -Uses a variety of software to accomplish given goals -Compares digital and non-digital devices -Collects information -Designs and creates content -Presents information	-Selects a variety of software to accomplish given goals -Selects, uses and combines internet services -Analyses and evaluates information -Collects and presents data	-Understands computer networks, including the internet -Appreciates how search results are ranked -Combines a variety of software to accomplish given goals -Selects, uses and combines software on a range of digital devices -Analyses and evaluates data
Digital Literacy	techniques, experimenting with colour, design, texture, form and function.	-Uses technology safely -Keeps personal information private -Recognises common uses of information technology beyond school	-Uses technology respectfully -Identifies where to go for help and support when they have concerns about content or contact on the internet or other online technologies	-Uses technology responsibly -Keeps personal information private -Identifies a range of ways to report concerns about contact/content	<ul> <li>Describes some of the risks of sharing too much information online.</li> <li>Understands the opportunities computer networks offer for communication</li> <li>Identifies a range of ways to report concerns about content</li> <li>Recognises acceptable/unacceptable behaviour</li> </ul>	-Designs and creates systems - Describe some of the risks of sharing too much information online. -Understands the opportunities computer networks offer for collaboration -Is discerning in evaluating digital content