Progression of Computing Skills			
Class 1			
Reception (EYFS)	Year 1		
INFORMATION TECHNOLOGY:	INFORMATION TECHNOLOGY:		
 Exploring the Digital World - With help search for and choose images from the internet With support enter text into a search engine to find specific given web sites Contribute to whole class creation of pictograms Begin to develop simple classification skills by carrying out simple sorting activities Start to recognise simple technologies in the world around them Communicating in the Digital World - Begin to use a keyboard (with support) and notice the effect on screen Understand there are a variety of tools in an art package Understand that technological devices can be used to record and play back sounds COMPUTER SCIENCE: Shaping the Digital World - Play with equipment that simulates control devices (push button toys) Play with simple adventure programme or simulation Explore outcomes when individual buttons are pressed on a robot DIGITAL LITERACY: With help save their own content in their own electronic folder Understand their logon to a site is personal to them Know some personal information (name, address, age) Know to tell a trusted adult if anyone asks them to do something that makes them feel sad, embarrassed or upset 	 Creating Content - The child can use digital technology to store and retrieve content The child can create original content using digital technology COMPUTER SCIENCE: Problem Solving - The child can understand algorithms as sequences of instructions in everyday contexts The child can program toys using sequences of instructions to implement an algorithm Programming - The child can give a sequence of instructions to a toy Logical Thinking - The child can give explanations for what they think a program will do DIGITAL LITERACY: The child can understand that information on the internet can be seen by others The child can understand what to do if they see disturbing content online at home or at school Using ICT Beyond School - The child can show an awareness of how IT is used for communication beyond school 		

Class 2 Year 2 Year 3			
Year 3			
INFORMATION TECHNOLOGY:			
 Creating Content - The child can use a range of programs on a computer The child can design and create content on a computer The child can collect and present information Searching - The child can search for information within a single site The child can understand that search engines select pages according to keywords found in the content COMPUTER SCIENCE: Problem Solving - The child can design and write a program using a block language, without user interaction The child can design and write a program using a block language, without user interaction The child can explore simulations of physical systems on screen The child can use sequence in programs The child can use sequence in programs The child can explain a simple, sequence-based algorithm in their own words The child can use logical reasoning to detect errors in programs The child can understand that computer networks transmit information in a digital (binary) format The child can use digital technology safely and show respect for others when working online The child can recognise unacceptable behaviour when using digital technology The child can know who to talk to about concerns and inappropriate behaviour at school 			

Progression of Computing Skills		
Year 4	Class 3 Year 5	Year 6
leal 4	Teal 5	Teal o
INFORMATION TECHNOLOGY:	INFORMATION TECHNOLOGY:	INFORMATION TECHNOLOGY:
 Creating Content - The child can use and combine a range of programs on a computer The child can design and create content on a computer in response to a given goal The child can collect and present data Searching - The child can use a standard search engine to 	 Creating Content - The child can use and combine a range of programs on multiple devices The child can design and create programs on a computer in response to a given goal The child can analyse and evaluate information Searching - The child can use filters to make more effective 	 Creating Content - The child can select, use and combine a range of programs on multiple devices The child can design and create systems in response to a given goal The child can analyse and evaluate data Searching - The child can make use of a range of search
find informationThe child can understand that search engines rank pages according to relevance	 use of a standard search engine The child can understand that search engines use a cached copy of the crawled web to select and rank results 	 engines appropriate to finding information that is required The child can appreciate that search engines rank pages based on the number and quality of
<u>COMPUTER SCIENCE:</u> Problem Solving -	COMPUTER SCIENCE:	in-bound links <u>COMPUTER SCIENCE:</u>
 The child can design and write a program using a block language to a given brief, including simple interaction The child can develop their own simulation of a simple physical system on screen The child can work with others to plan a project Programming - The child can use sequence and repetition in programs The child can write a program that accepts keyboard input and produces an on-screen output Logical Thinking - The child can use logical reasoning to detect and correct errors in programs The child can understand that the internet transmits information as packets of data The child can understand how the internet makes the web possible 	 Problem Solving - The child can design, write and debug a program using a block language, based on their own ideas The child can experiment with computer-controlled applications The child can plan a solution to a problem using decomposition Programming - The child can use sequence, selection and repetition in programs The child can write a program that accepts keyboard and mouse input and produces output on screen and through speakers Logical Thinking - The child can use logical reasoning to detect errors in algorithms The child can understand how data routing works on the internet The child can understand how web pages are created and transmitted 	 Problem Solving - The child can design, write and debug a program using a second programming language, based or their own ideas The child can design, write and debug their own computer control application The child can solve problems using decomposition, tackling each part separately Programming - The child can use sequence, selection, repetition and variables in programs The child can write a program that accepts inputs other than keyboard and mouse and produces outputs other than screen or speakers Logical Thinking - The child can use logical reasoning to detect and correct errors in algorithms (and programs) The child can understand how domain names are converted into IP addresses on the internet

DIGITAL LITERACY:

E-Safety -

- The child can demonstrate that they can act responsibly when using computers
- The child can understand the difference between acceptable and unacceptable behaviours when using digital technology
- The child can know who to talk to about concerns and inappropriate behaviour at home or in school
- The child can decide whether digital content is relevant for a given purpose or question
- The child can work collaboratively with classmates on a shared wiki

DIGITAL LITERACY:

E-Safety -

- The child can demonstrate that they can act responsibly when using the internet
- The child can discuss the consequences of particular behaviours when using digital technology
- The child can know how to report concerns and inappropriate behaviour in a range of contexts
- The child can decide whether digital content is reliable and unbiased
- The child can work collaboratively with classmates on a class website or blog

DIGITAL LITERACY:

E-Safety -

- The child can show that they can think through the consequences of their actions when using digital technology
- The child can identify principles underpinning acceptable use of digital technologies
- The child can know a range of ways to report concerns and inappropriate behaviour in a variety of contexts
- The child can form an opinion about the effectiveness of digital content
- The child can use online tools to plan and carry out a collaborative project