Year 4
Computing Skills Progression

	Year Group	4	Class		Teacher	
UNIT	**TERM 1**		**TERM 2**		**TERM 3**	
TOPIC						

Computing Programme of Study

Purpose of study

A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.

Aims

The national curriculum for computing aims to ensure that all pupils:
- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology.

Skills Progression

Throughout the year, pupils are expected to learn, apply and understand the following skills and processes in age appropriate tasks and activities.

They should be taught to:
Computers
- use other input devices such as cameras or sensors

Networks
- understand what servers are and how they provide services to a network

Using Computer
- with support, select and use a variety of software on a range of digital devices
- with support, select, use and combine a variety of software on a range of digital devices to accomplish given goals

E-Safety
- use technology responsibly and understand that communication online may be seen by others
- understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies

Net Searching
- understand how results are selected and ranked by search engines

Coding
- decompose programs into smaller parts
- use logical reasoning to detect and correct errors in algorithms and programs
- select, use and combine a variety of software, systems and content that accomplish given goals

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TOPIC						
Knowledge & Skills						
Pupils who are working above expectations						
Total number of pupils in class						
Pupils who have not yet reached expectations						
Teacher Comments						
Subject Leader Action						