

Key Stage 2 Overview *The objectives below indicate the learning objectives for pupils, split into three learning areas of Computing Science, Information Technology and Digital Literacy.*

Computer Science

CS2.1 Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.

CS2.2 Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.

CS2.3 Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.

CS2.4 Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web.

CS2.5 Appreciate how [search] results are selected and ranked.

Information Technology

IT2.1 Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of content which accomplishes given goals, including collecting, analysing, evaluating and presenting data and information.

IT2.2 Use search technologies effectively.

Digital Literacy

DL2.1 Understand the opportunities networks offer for communication and collaboration.

DL2.2 Be discerning in evaluating digital content.

DL2.3 Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Key Stage 2 Computing – Long Term Plan

	Year 5	Year 6
Term		
Autumn 1	Basic Network Skills DL2.1	Publishing IT2.1
HALF TERM		
Autumn 2	E - Safety DL2.2, DL2.3	Scratch CS2.1, CS2.2, CS2.3
CHRISTMAS HOLIDAY		
Spring 1	Cryptography DL2.1, DL2.3, CS2.3, CS2.4	Spreadsheet Modelling CS2.1, IT2.1
HALF TERM		
Spring 2	Game Development CS2.1, CS2.3, IT2.1	Presentations IT2.1
EASTER HOLIDAY		
Summer 1	Spreadsheets Basic Formula IT2.1	Internet, Email and E-Safety CS2.4, CS2.5, IT2.2, DL2.2, DL2.3
HALF TERM		
Summer 2	Virtual Design IT2.1	App Development CS2.1, CS2.3

