A complete six-year primary computing course that takes a real-life, project-based approach to teaching young learners the vital computing skills they will need for the digital world.

### KEY STAGE 2

<table>
<thead>
<tr>
<th>ENC attainment target</th>
<th>OIC learning outcome</th>
<th>OIC unit reference</th>
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| design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems | 4.1c Create a program to meet a given purpose  
5.1c Adapt a program to meet a new requirement  
6.1b Write a program that controls or simulates physical movement | 4.3 Computational thinking: 
Making a quiz program  
4.4 Programming: Make a game  
5.3 Computational thinking: A test with many questions  
5.4 Programming: The hungry parrot  
6.4 Programming: The frog maze |
| solve problems by decomposing them into smaller parts | 6.1c Solve a problem by breaking it into smaller parts or modules | 6.3 Computational thinking:  
Algorithms and programs  
6.4 Programming: The frog maze |
| use sequence, selection and repetition in programs; work with variables and various forms of input and output | 4.1a Plan and create a program that uses a named variable  
4.1b Plan and create a program that uses a conditional structure  
4.1d Make programs with different types of input and output  
5.1b Create a program with a loop controlled by an exit condition | 4.3 Computational thinking:  
Making a quiz program  
4.4 Programming: Make a game  
5.3 Computational thinking: A test with many questions  
5.4 Programming: The hungry parrot |
| use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs | 5.1a Create an algorithm that includes a loop  
6.1a Make an algorithm to solve a problem using logical reasoning | 5.3 Computational thinking: A test with many questions  
6.3 Computational thinking:  
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 | 4.3c Describe how computers may be used in the world of work  
5.3a Explain that digital devices can be connected by communication links  
5.3b Explain what the Internet is and some Internet services such as the World Wide Web  
5.3c Describe some ways the Internet helps us work together in the modern world | 4.1 The nature of technology:  
Computers around us  
5.1 The nature of technology:  
Computer networks |
# Computing

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| use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content | 4.4a Find information using a web search  
5.4a Obtain information from online sources and describe the sources used  
5.4b Choose information from online sources, and give reasons for choices  
5.4c Explain how online searches select and show useful information  
6.4b Review web content to check if appropriate, and amend if needed | 4.2: Digital literacy: Using the World Wide Web  
5.2: Digital literacy: Searching the World Wide Web  
6.2: Digital literacy: Make a web page |
| 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 | 4.2a Use software to format a document and fix mistakes  
4.2b Use software tools to process numerical data and see summary results including a graph  
5.2a Make and share images to suit an audience and a purpose  
5.2b Amend an image to increase its impact  
5.2c Use a spreadsheet to answer questions by finding out what happens when numbers change  
6.2a Use technology to collect or record data  
6.2b Use software to structure, sort and filter data  
6.2c Work as a team using technology (for example to give a group presentation)  
6.4a Create a simple web page with text and images | 4.5 Multimedia: Writing and editing a document  
4.6 Numbers and data: Working with values  
5.5 Multimedia: Illustrating a recipe card  
5.6 Numbers and data: My pizza snack bar  
6.2 Digital literacy: Make a web page  
6.5 Multimedia: Our school survey  
6.6 Numbers and data: Amir’s parcels |
| use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact | 4.4b Describe how to spot unsuitable Internet content and behaviour  
4.4c Describe several ways you can report your concerns  
6.4c Act responsibly and with respect for others when using the computer | 4.2 Digital literacy: Using the World Wide Web  
6.2 Digital literacy: Make a web page |
| Extra content: not covered by ENC attainment targets | 4.3a Describe what storage is and why it is important  
4.3b Identify a range of modern devices which contain computer processors, for example embedded processors | 4.1 The nature of technology: Computers around us  
6.1 The nature of technology: Robots |