# Marsh Green Primary School

## Computing

The use of information and technology is an integral part of the national curriculum and is a key skill for everyday life.

Computers, tablets, programmable robots, digital and video cameras are a few of the tools that can be used to acquire, organise, store, manipulate, interpret, communicate and present information.

At Marsh Green Primary School we recognise that pupils are entitled to quality hardware and software and a structured progressive approach to the learning of the skills needed to enable them to use it effectively.

# Units by Year Group – Single Age Classes

## Theme Key:

| | | |
|---|---|---|
| 🟥 Coding and Computational thinking | 🟦 Spreadsheets | 🟩 Internet and Email |
| 🟧 Art and Design | 🟨 Music | 🟪 Databases and graphing |
| 🟪 Writing and Presenting | ⬜ Communication and networks | |

### YEAR 1

| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Unit 1.1** Online Safety & Exploring Purple Mash — Weeks – 4 — Programs – Various

**Unit 1.2** Grouping & Sorting — Weeks – 2 — Programs – 2DIY

**Unit 1.3** Pictograms — Weeks – 3 — Programs – 2Count

**Unit 1.4** Lego Builders — Weeks – 3 — Programs – 2DIY

**Unit 1.5** Maze Explorers — Weeks – 3 — Programs – 2Go

**Unit 1.6** Animated Story Books — Weeks – 5 — Programs – 2Create A Story

**Unit 1.7** Coding — Weeks – 6 — Programs – 2Code

**Unit 1.8** Spreadsheets — Weeks – 3 — Programs – 2Calculate

**Unit 1.9** Technology outside school — Weeks – 2 — Programs – Various

### YEAR 2

| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Unit 2.1** Coding — Weeks – 5 — Programs – 2Code

**Unit 2.2** Online Safety — Weeks – 3 — Programs – Various

**Unit 2.3** Spreadsheets — Weeks – 4 — Programs – 2Calculate

**Unit 2.4** Questioning — Weeks – 5 — Programs – 2Question, 2Investigate

**Unit 2.5** Effective Searching — Weeks – 3 — Programs – Browser

**Unit 2.6** Creating Pictures — Weeks – 5 — Programs – 2PaintAPicture

**Unit 2.7** Making Music — Weeks – 3 — Programs – 2Sequence

**Unit 2.8** Presenting Ideas — Weeks – 4 — Programs – Various

## YEAR 3

| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Unit 3.1 Coding** — Number of Weeks – 6, Main Programs – 2Code

**Unit 3.2 Online safety** — Weeks – 3, Programs – Various

**Unit 3.3 Spreadsheets** — Weeks – 3, Programs – 2Calculate

**Unit 3.4 Touch Typing** — Weeks – 4, Programs – 2Type

**Unit 3.5 Email (including email safety)** — Weeks – 6, Programs – 2Email, 2Connect, 2DIY

**Unit 3.6 Branching Databases** — Weeks – 4, Programs – 2Question

**Unit 3.7 Simulations** — Weeks – 3, Programs – 2Simulate, 2Publish

**Unit 3.8 Graphing** — Weeks – 3, Programs – 2Graph

## YEAR 4

| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Unit 4.1 Coding** — Number of Weeks – 6, Main Programs – 2Code

**Unit 4.2 Online safety** — Weeks – 4, Programs – Various

**Unit 4.3 Spreadsheets** — Weeks – 6, Programs – 2Calculate

**Unit 4.4 Writing for different audiences** — Weeks – 5, Programs – 2Email, 2Connect, 2DIY

**Unit 4.5 Logo** — Weeks – 4, Programs – Logo

**Unit 4.6 Animation** — Weeks – 3, Programs – 2Animate

**Unit 4.7 Effective Search** — Weeks – 3, Programs – Browser

**Unit 4.8 Hardware Investigators** — Weeks – 2

## YEAR 5

| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Unit 5.1 Coding** — Number of Weeks – 6, Main Programs – 2Code

**Unit 5.2 Online safety** — Weeks – 3, Programs - Various

**Unit 5.3 Spreadsheets** — Weeks – 6, Programs – 2Calculate

**Unit 5.4 Databases** — Weeks – 4, Programs – 2Question, 2Investigate

**Unit 5.5 Game Creator** — Weeks – 5, Programs – 2DIY 3D

**Unit 5.6 3D Modelling** — Weeks – 4, Programs – 2Design and Make

**Unit 5.7 Concept Maps** — Weeks – 4, Programs – 2Connect

| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **YEAR 6*** | **Unit 6.1 Coding** Number of Weeks – 6 Main Programs – 2Code | | | | | | **Unit 6.2 Online safety** Weeks – 2 Programs - Various | | | **Unit 6.3 Spreadsheets** Weeks – 5 Programs – 2Calculate | | | | | **Unit 6.4 Blogging** Weeks – 5 Programs – 2Blog | | | | **Unit 6.5 Text Adventures** Weeks – 5 Programs – 2Code, 2Connect | | | | | **Unit 6.6 Networks** Weeks – 3 | | | **Unit 6.7 Quizzing** Weeks – 6 Programs – 2Quiz, 2DIY, Text Toolkit, 2Investigate | | | | |

\*   **There is an optional unit 6.8 – Understanding Binary that can be used in addition to the above units.  It is a four week unit.**