Year 1 and 2 Cycle A

Online Safety is taught every half term using Project Evolve and the resources from 2BeSafe

Information Technology | Computer Science | Digital Literacy

Introduction to Purple Mash — 3 Lessons

Introduction to Purple Mash Introducing Purple Mash and the essential skills for the year 1 scheme units.

- Logging in and out of Purple Mash
- Opening and using 2Dos
- Saving work in the Work area

Creating Pictures — 5 Lessons

Using a digital art tool to create art in different traditional art styles.

- Using 2Paint a Picture templates
- Exploring the features of each template
- Compiling an online art portfolio
- Comparing digital art effects to non digital effects

Data Explorers — 6 Lessons

Grouping and sorting objects. Relating this to organising and interpreting data. Using pictorial data on Purple Mash.

- Sorting and grouping quizzes
- Understanding what data is
- Representing data electronically

Creating & Following Instructions — 3 Lessons

Understanding simple algorithms through unplugged activities before moving to sequencing activities on digital devices.

- Following instructions
- Creating Instructions
- Understanding simple algorithms

Animated Stories — 6 Lessons

Creating and combining digital art and text to produce digital books using the 2Create a Story tool.

- Creating digital art and text
- Adding animation to images
- Adding sound

Presenting Ideas — 4 Lessons

Creating mind maps using 2Connect to organise and present ideas.

- Using and making mind maps
- Using a mind map as a presentation tool

Technology Around Us — 4 Lessons

Defining and understanding what technology is. Relating this to school, home, outside and to its use in the wider world.

- Understanding what technology is
- Recognising technology in the local environment and wider world

Making Beats — 4 Lessons

Introducing the concept of digital music.

- Creating sounds using 2Explore
- Combining instruments using 2Beat
- Composing digital music

Year 1 and 2 Cycle B

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Information Technology | Computer Science | Digital Literacy

Introduction to Purple Mash — 3 Lessons

Introduction to Purple Mash Introducing Purple Mash and the essential skills for the year 1 scheme units.

- Logging in and out of Purple Mash
- Opening and using 2Dos
- Saving work in the Work area

Route Explorers — 4 Lessons

Coding using 2Go. Writing simple instructions to move a screen turtle along routes.

- Considering direction and distance
- Creating commands
- Building an algorithm

The Internet — 4 Lessons

Understanding what the internet is.

- Defining the World Wide Web
- Recognising browsers and websites
- Connecting to the internet

Spreadsheets — 6 Lessons

Introducing spreadsheets and the way they organise data using the 2Calculate tool.

- Understanding cells and columns
- Inserting images with values
- Using totalling tools
- Creating graphs

Questioning — 4 Lessons

Investigating data, how it is collected and how it can be presented.

- Asking the right question to collect or present data
- Keeping a tally
- Using 2Count to present the data
- Using a branching database

Coding — 6 Lessons

Introducing block coding using 2Code.

- Using blocks to code
- Understanding objects, actions and events
- Planning and designing a program

Coding — 6 Lessons

Developing coding skills using 2Code.

- Understanding algorithms
- Introducing sequencing
- Coding interaction between objects
- Using timers
- Debugging

Year 3

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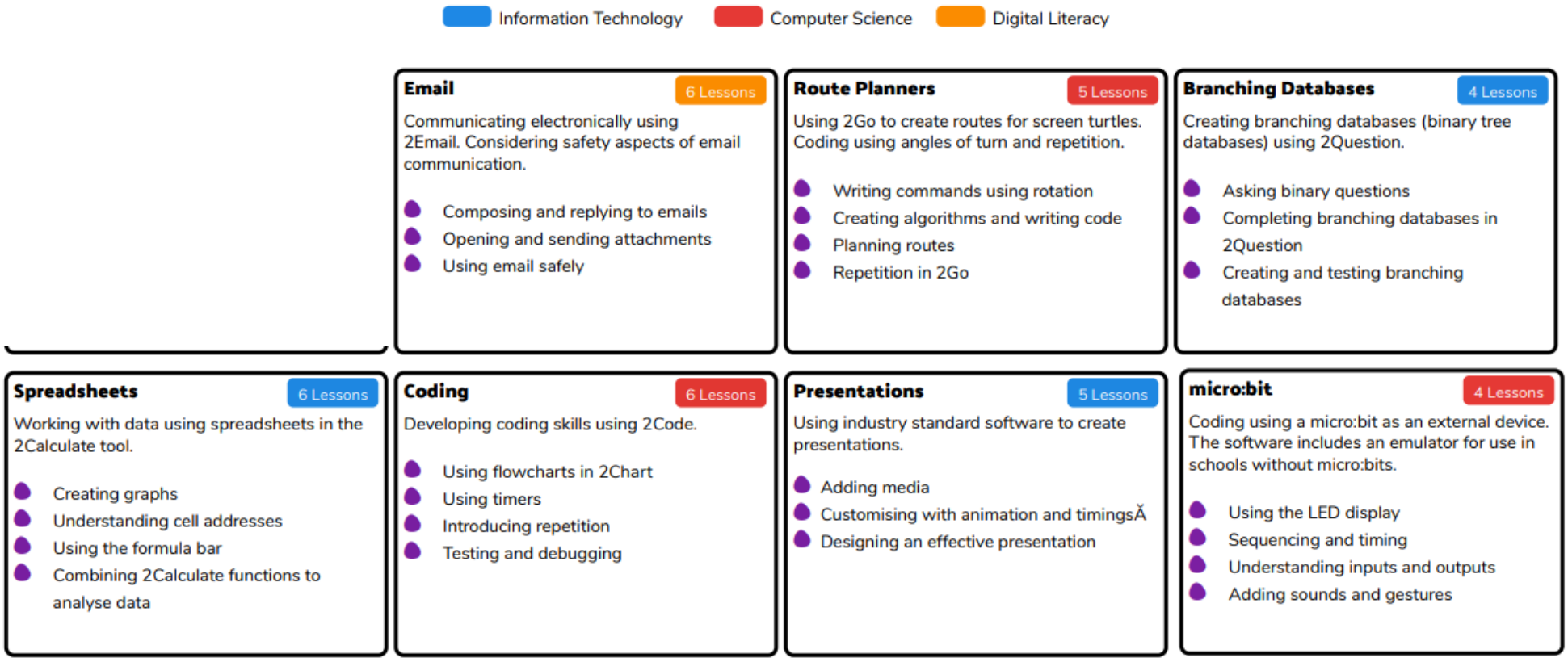

Year 4

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Information Technology | Computer Science | Digital Literacy

Unpacking Hardware and Software — 4 Lessons

Understanding technology and computer systems in relation to their hardware and software.

- Defining types of technology
- Knowing how systems work together
- Identifying hardware
- Understanding software

Animation — 6 Lessons

Creating digital animations using the 2Animate tool.

- Knowing the types of animation
- Understanding onion skinning
- Exploring animation features
- Using storyboarding

Logo — 4 Lessons

Learning the text-based Logo coding language to create patterns and shapes Coding sequences, repetition, and procedures.

- Using Logo commands
- Writing commands in a sequence
- Refining code using repetition and procedures

Sound Stories — 4 Lessons

Adding narrative and sound effects to create audio books using 2Cast.

- Recording audio content
- Creating sound effects
- Post-production editing

Effective Searching — 4 Lessons

Exploring how to effectively search the internet. Exploring safety aspects of online information.

- Using a search engine
- Search rankings
- Reliable searching
- Search algorithms

Coding — 6 Lessons

Developing coding skills using 2Code.

- Introducing selection
- Exploring design properties
- Introducing loops
- Coding number variables

micro:bit — 4 Lessons

Coding using a micro:bit as an external device. Includes an emulator for schools without micro:bits.

- Exploring sensor inputs and the accelerometer
- Using variables, inputs and outputs
- Coding with selection and loops

Introduction to AI — 4 Lessons

Understanding what artificial intelligence is, how it can help and the ethics around its use.

- Exploring how AI works
- Investigating the positive and negative impacts of AI
- Considering AI in the future

Year 5

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Year 6

Online Safety is taught every half term using Project Evolve and the resources from 2BeSafe