



## **Online Safety**

#### Key Learning

Unit: 2.2

- To know how to refine searches using the Search tool.
- To use digital technology to share work on Purple Mash to communicate and connect with others locally.
- To have some knowledge and understanding about sharing more globally on the Internet.
- To introduce Email as a communication tool using 2Respond simulations.
- To understand how we should talk to others in an online situation.
- To open and send simple online communications in the form of email.
- To understand that information put online leaves a digital footprint or trail.
- To identify the steps that can be taken to keep personal data and hardware secure.

Key Resources

<mark>purple</mark> mash



#### Key Vocabulary

## Search

Look for information in (in a database or the World Wide Web) using a search engine.

#### Displayboard

In Purple Mash, this is a tool that enables you to share work with a wide audience.

#### Internet

A way to send information from one computer to another anywhere in the world using technology such as phones, satellites and radio links.

#### Sharing Post or repost (something) on a website.

Email Messages distributed by electronic means from one computer user to one or more people.

Attachment A computer file sent with an email.

#### **Digital Footprint**

The information about a person that exists on the Internet as a result of their online activity.





# What I already know:

To log in safely.
To understand the importance of logging out.

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Purple Mash Computing Scheme of Work: Knowledge organisers

## Unit: 2.3 Spreadsheets

- · To use 2Calculate image, lock, move cell, speak and count tools to make a counting machine.
- To learn how to copy and paste in 2Calculate
- To use the totalling tools.
- To use a spreadsheet for money calculations.
- · To use the 2Calculate equals tool to check calculations.
- To use 2Calculate to collect data and produce a graph.



**Key Resources** 

2Calculate

## **Key Questions**

Why would you copy and paste when using a spreadsheet?

You might want to rearrange the information in the spreadsheet. It will save you entering the same information many times if you want to repeat things in different cells.

How could a spreadsheet help you when you are planning some shopping?

You could use it to store the process and work out how much it would cost to buy the things that you wanted.

Look at the graph made in 2Calculate showing the class' favourite pets. Which is

> Zack Petra Jay Harriet Ishaq Rina Eve # h 4 32 4

the most popular?

Purple Mash Computing Scheme of Work: Knowledge organisers Unit: 2.3 Spreadsheets Key Vocabulary

Backspace key Use this key to delete the character before the current cursor position.

#### Copy and Paste

A way to copy information from the screen into the computer's memory and paste it elsewhere without re-typing.

Columns

Vertical reference points for the cells in a spreadsheet.

Cells An individual section of a spreadsheet grid. It contains data or calculations.

Count Tool

In 2Calculate, this counts the number of cells with a value that matches the value of the cell to the left of the tool.

Delete key Use this key to remove the contents of a cell.

Equals tool

Tests whether the entered calculation in the cells to the left of the tool has the correct answer in the cell to the right of the tool

**Image Toolbox** Use this to insert images into cells.

Lock tool This tool prevents cell

Move cell tool This tool makes a cell's contents moveable by drag-and-drop methods.

Rows

Vertical reference points for the cells in a spreadsheet.

Speak Tool

This tool will speak the contents of a cell containing a number each time the value changes.

Spreadsheet

A computer program that represents information in a grid of rows and columns.

values being changed.



What I already know:

• To know what a spreadsheet program looks like

- How to open 2Calculate in Purple Mash
- How to enter data into spreadsheet cells.
- To use 2 Calculate image tools to add clipart to cells.
- To use 2 Calculate control tools: lock, move cell, speak and count

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Purple Mash Computing Scheme of Work: Knowledge organisers

## Unit: 2.4 Questioning

- To learn about data handling tools that can give more information than pictograms.
- To use yes/no questions to separate information.
- To construct a binary tree to identify items.
- To use 2Ouestion (a binary tree) database) to answer questions.
- To use a database to answer more complex search questions.
- To use the Search tool to find information.



Key Resources

## Key Vocabulary

#### Pictogram A diagram that uses pictures to represent

data.

#### Question A sentence written or spoken to find information.

Data

Facts and statistics collected together that can provide information.

Collate Collect and combine (texts, information, or data).

**Binary Tree** A simple way of sorting information into two categories.

representing a person in a video game, Internet forum or other online format.

#### Database

Avatar

An icon or figure

A computerised system that makes it easy to search, select and store information.





Click to Edit









How is information

tree?

On a binary tree

through a series of

branch of the binary tree.

#### How does a Pictogram show information?

Title

On a pictogram, data is represented by pictures. Pictograms are set out in the same way as bar charts, but instead of bars they use columns of pictures to show the numbers involved.

# Sort, group and

How can a database organised in a binary help organise information? A database is a way information is organised of storing information in such a way that questions that can only it can easily be be answered 'yes' or 'no'. searched. Databases Eventually only one item are designed to hold is left in the category lots of information that which forms the end of a would be difficult to

> search without using a computer.



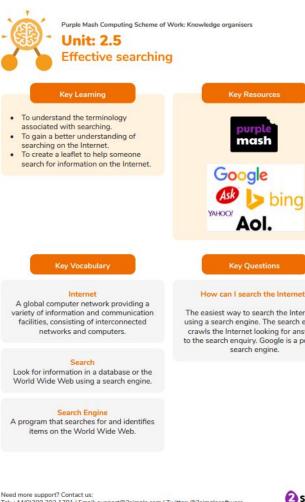
# What I already know:

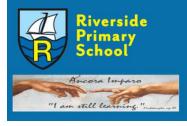
- To save and share work
- To know the save, print, open and new icon.

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# What I already know:

• To learn how to find saved work in the Online Work area and find teacher comments.

• To learn how to search Purple Mash to find resources.

• To become familiar with the icons and types of resources available in the Topics section.

• To start to add pictures and text to work

• To explore the Tools and Games section of Purple Mash.

#### How can I search the Internet?

The easiest way to search the Internet is using a search engine. The search engine crawls the Internet looking for answers to the search enquiry. Google is a popular

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Simple



## Unit: 2.6 **Creating Pictures**

#### Key Learning

- To learn the functions of the 2Paint a Picture tool
- To learn about and recreate the Impressionist style of art (Monet, Degas, Renoir).
- To recreate Pointillist art and look at the work of pointillist artists such as Seurat.
- To learn about the work of Piet Mondrian and recreate the style using the lines template.
- To learn about the work of William Morris and recreate the style using the patterns template.
- To explore surrealism and eCollage

#### Key Vocabulary

#### Impressionism

The impressionist movement began in the 1860s and became most popular in the 1870s and 1880s. It differed from the common art of the time because it wasn't religious art, showing scenes from religious stories or specific events. but was just intended to capture a scene at a moment. The art gave an 'impression' of the scene.

#### Palette Within computer

graphics, this is the range of colours or shapes available to the user.

## Pointillism

Pointillism was a development of impressionism. It was invented mainly by George Seurat and Paul Signac. Pointillist paintings are created by using small dots in different colours to build up the whole picture. Colours are placed near

each other rather than

mixed

An instance of posting or reposting something on a social media website or

subconscious areas of the mind. The artwork often made little sense as it was usually trying to depict a dream or random thoughts.

Share

application.

Surrealism

Explored the

Key Resources

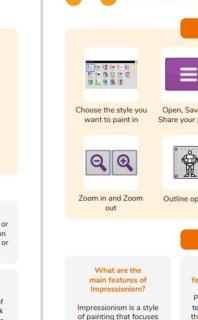
mash

2Paint a Picture

## Template Something that serves

as a model for others to copy.

Simple





Purple Mash Computing Scheme of Work: Knowledge organisers

Unit: 2.6 **Creating Pictures** 

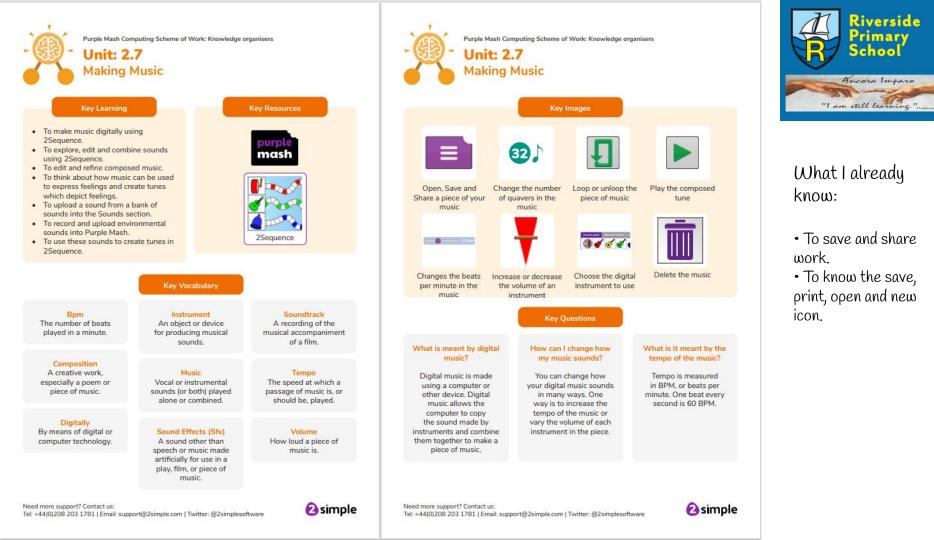


# What I already know:

- To save and share work
- To know the save, print, open and new icon.

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Purple Mash Computing Scheme of Work: Knowledge organisers

## **Presenting ideas**

- To explore how a story can be presented in different ways.
- To make a quiz about a story or class topic.
- To make a fact file on a non-fiction topic
- To make a presentation to the class.



20uiz

2Publish

2Connect

Key Resources

#### Key Vocabulary

2Create a stor

# Quiz especially as a

Node A way to represent a concept or idea using

#### Animated

text and/or images.

Concept Map (Mind

Map)

A tool for organising and

representing knowledge.

They form a web of

ideas which are all

interconnected.

A process by which we see still pictures appear to move.

A test of knowledge, competition between individuals or teams as a form of entertainment.

#### Non-Fiction Informative or factual writing.

#### Presentation

A speech or talk in which a new product, idea, or piece of work is shown and explained to an audience.



Audience The people giving attention to something.

Simple

Narrative

A speech or talk in which







# What I already know:

- To save and share work
- To know the save, print, open and new icon.

