

Knowledge Organiser Online Safety/ Effective Searching/ Lego Builders Year 1/2

What I have already learnt ELG's

- I show resilience and perseverance in the face of a challenge.
- I can talk about the different factors that support their overall health and wellbeing: -sensible amounts of 'screen time'.
- I have developed my small motor skills so that I can use a range of tools competently, safely and confidently.
- I have used IT equipment to explore, use and refine a variety of artistic effects to express their ideas and feelings.
- I have tried new activities and show independence, resilience and perseverance in the face of challenge.
- I have learnt the reasons for rules, know right from wrong and try to behave accordingly.
- I know how to safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function

Recall and Remember

Quiz Unit 1.1 Online Safety

[Purple Mash by 2Simple](#)

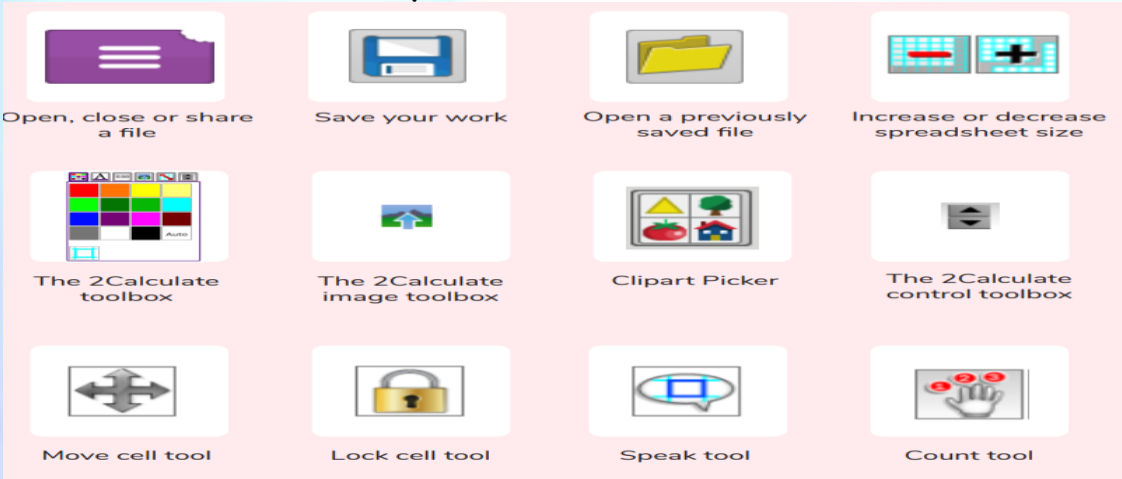
Quiz Unit 2.5 Effective Searching

Quiz Unit 1.4 Lego Builders

What I will have learnt by the end of my Key Stage

- I will know how what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions
- I will know how to create and debug simple programs
- I will know how to use technology purposefully to create, organise, store, manipulate and retrieve digital content
- I will know common uses of information technology beyond school
- I will know how to use technology safely and respectfully, keeping personal information private; identify where to go for help and support when I have concerns about content or contact on the internet or other online technologies

Key skills I will learn/use



Key Concepts/Strands

- **Computing Science**
- **Information Technology**
- **Digital Literacy**

My skills and knowledge that I may use from other subjects

Literacy- I can use my literacy skills to read and input data

Mathematics- I can use my mathematical skills to read and interpret diagrams and graphs

Opportunities for teaching Diversity, Equality (including protected characteristics) and expanding Cultural Capital

Show children examples of contrasting countries and cultures that do not have the same opportunities as we have

- [Educational video: The Third World for kids | Happy Learning](#)

Look at what technology will look like in the future.

- [Technology of the Future | Safe Search \(safesearchkids.com\)](#)

Key Knowledge

- To understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions
- To create and debug simple programs
- To use logical reasoning to predict the behaviour of simple programs
- To use technology purposefully to create, organise, store, manipulate and retrieve digital content
- To recognise common uses of information technology beyond school
- To use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies

What I will have learnt by the end of this unit

Unit 1.1 Online Safety

- To log in safely and understand why that is important.
- To create an avatar and to understand what this is and how it is used.
- To save work to the My Work area and understand that this is private space.
- To learn how to find saved work in the Online Work area.
- To learn how to search Purple Mash to find resources.
- To start to add pictures and text to work.
- To explore the Tools area of Purple Mash and to learn about the common icons used in Purple Mash for Save, Print, Open, New.
- To understand the importance of logging out when they have finished.

Unit 2.5 Effective Searching

- To retrieve relevant, purposeful digital content using a search engine.
- To understand the terminology, layout and features of a search engine
- To apply my learning of effective searching beyond the classroom.
- To create a leaflet within Purple Mash which shares learning about safe searching.
- That I can ask a search engine a question

Unit 1.4 Lego Builders

- To follow accurate instructions.
- To know that by following the instructions correctly, they will get the correct result.
- To know that an algorithm is a precise, step-by-step set of instructions used to solve a problem.
- To organise instructions for a simple recipe.
- To know that errors in an algorithm or program is called 'debugging'.

Knowledge Organiser Online Safety/ Effective Searching/ Lego Builders Year 1/2

Key Vocabulary Unit 1.1 Online Safety

Alert

A system that lets you know if you have something to look at.

Device

A piece of electrical equipment made for a purpose.

Log in

Using a username and password to access a system.

My Work Area

The place on Purple Mash where your work is stored. Only you and your teachers can access this.

Avatar

A digital picture to represent someone.

File Name

The name given to an online piece of work.

Log out

Leaving a computer system.

Notification

A message telling you about something.

Private

Keeping information restricted from other people.

Button

An area where you click to make something happen.

Icon

An image on a web page that you can click on to navigate to somewhere.

Menu

A button which gives the user different options.

Password

A series of letters, numbers and special characters that is entered after the username to access an online site.



Key Vocabulary Unit 2.5 Effective Searching

Digital Footprint

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

Domain

Part of the Internet owned by an individual, company or organisation.

Internet

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

Network

Connected devices that can send and receive information, voice and video.

Search Engine

A program to help you find web pages on the Internet.

Web Address

Identifying address for a file or web page on the Internet. Also known as URL.

Web Page

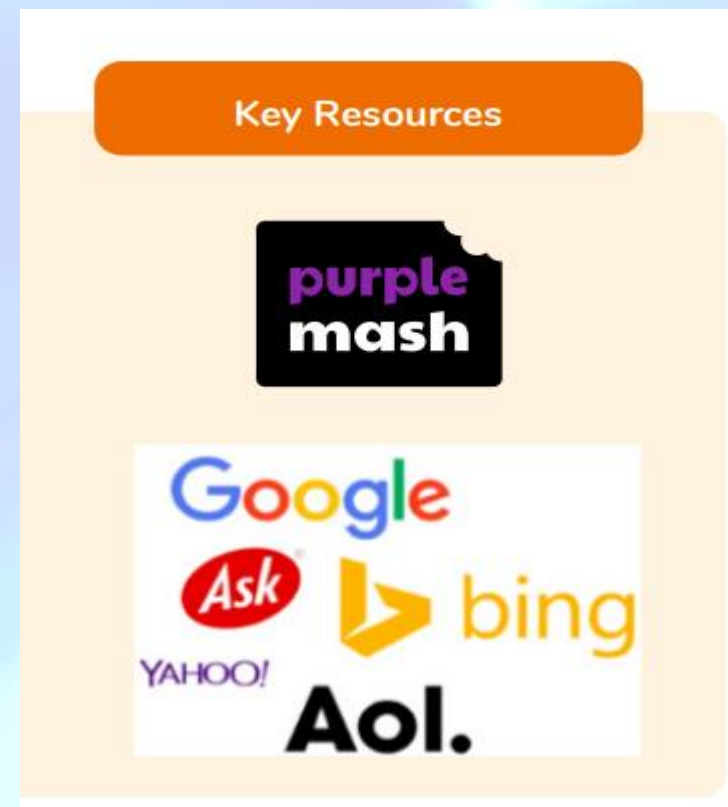
A single page which can include images, videos and charts.

World Wide Web

The web pages and documents you see when you are browsing online. It is just one part of the Internet.

Web Site

A collection of web pages that belong to one domain.



Key Vocabulary Unit 1.4 Lego Builders

Algorithm

A precise, step-by-step set of instructions used to solve a problem or achieve an objective.

Code

Instructions that a programmer enters into a computer that cause the computer to perform a certain way.

Computer

An electronic device for storing and processing data

Debugging

To find and remove errors from computer hardware or software.

Instructions

Detailed information about how something should be done or operated.

Program

An algorithm that has been coded into something that can be run by a machine, e.g., a computer or a robot



