



Online Safety and Exploring Purple Mash

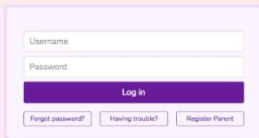
Key Learning

- To log in safely.
- 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.
- To learn how to open, save and print.
- To understand the importance of logging out.

Key Resources



Key Images



Log in Screen



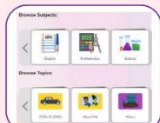
Avatar



Save your work



Tools section of Purple Mash



Subjects & Topics



This picture shows you if you have any notifications



The area of Purple Mash where your work is stored

Key Vocabulary

Alert

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

Avatar

A digital picture to represent someone.

Button

An area where you click to make something happen.

Device

A piece of electrical equipment made for a purpose.

File Name

The name given to an online piece of work.

Icon

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

Log in

Using a username and password to access a system.

Log out

Leaving a computer system.

Menu

A button which gives the user different options.

Notification

A message telling you about something.

My Work Area

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

Password

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

Private

Keeping information restricted from other people.

Purple Mash Tools

A selection of programs which help you carry out different tasks.

Search

A way of finding specific resources you want to look at.

Saving

Store your work as you create something so it can be accessed later.

Key Questions

What is a password and why should we keep them safe?

A password is a secret word or phrase that allows a user to access a website. Passwords are like toothbrushes in that they should not be shared with anyone else.

What is a digital avatar?

In Purple Mash, an avatar is a picture you create in the software to represent you. It is safer to use an avatar on the Internet than have a picture of yourself.

Where is my work stored on Purple Mash?

In Purple Mash, most of the work you save will be saved in the My Work section of Purple Mash. The only person that can see this work is the teacher and you.



Coding

Key Learning

- To understand what instructions are and predict what might happen when they are followed.
- To use code to make a computer program.
- To understand what object and actions are.
- To understand what an event is.
- To use an event to control an object.
- To begin to understand how code executes when a program is run.
- To understand what backgrounds and objects are.
- To plan and make a computer program.

Key Resources



2Dos



Free code chimp



Tools

Key Questions

What is coding?

Writing instructions in a way that a computer can interpret them to make a program.

Why is it useful to design before coding?

It helps you to get a clear idea of what you want your program to do. You can use the design to decide which objects you need to add, what to call them and what actions they should perform.

How can you make characters move in a 2Code program?

In design mode, add a character. Change properties such as the name and scale. Exit from design mode and drag your character's code block into the coding window. From the properties menu, select right, left, up or down.

Key Vocabulary

Action

The way that objects change when programmed to do so. For example, move.

Algorithm

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

Background

In 2Code the background is an image in the design that does not change.

Code

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

Coding

Writing instructions that the computer can process (understand) to make programs (software).

Command

A single instruction in 2Code.

Execute

This is the proper word for when you run the code. We say, 'the program (or code) executes.'

Event

An occurrence that causes a block of code to be run. The event could be the result of user action such as the user pressing a key or clicking the screen.

Debug/ Debugging

Fixing code that has errors so that the code will run the way it was designed.

Instruction

Detailed information about how something should be done or operated.

Object

Items in a program that can be given instructions to move or change in some way (action).

Output

Information that comes out of the computer e.g. sound that comes out of the speakers.

Plan

When coding, a plan means including the objects and actions into a written document that shows what the program should look like (the design) and what the objects should do (the actions).

Programmer

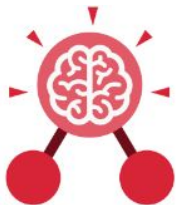
A person who writes computer programs. Sometimes called a coder.

Properties

These determine the look and size of an object. Each object has properties such as the image, scale and position of the object.

Run

This is what you do when you click the Play button in 2Code: The program runs.



Technology Outside School

Key Learning

- To walk around the local community and find examples of where technology is used.
- To record examples of technology outside school.

Key Vocabulary

Computer

An electronic device for storing and processing data.

Technology

Science and engineering knowledge put into practical use to solve problems or invent useful tools.

Key Resources



2Publish Plus

Key Questions

What is technology?

Technology is the use of knowledge to invent new devices or tools. Throughout history, technology has made people's lives easier.

How does technology make our lives easier?

Technology has made life easier in many areas. It is now much easier to communicate around the world. Messages that used to take weeks to reach the sender can now be sent and received in seconds. We are surrounded by technology from your toys, to machines in your house, to systems that control traffic and planes.