



Declarative and Procedural Knowledge

Year 1

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Introduction

It is important to note that for simplicity and to demonstrate strand coverage, units have been put into their 'best-fit' strand in line with the Scheme of Work Overview document.

Key Stage 1

- In many units, children will be furthering online understanding and concepts of technology (DL) through making digital content (IT and CS)

Key Stage 2

- Children will develop an understanding of the capabilities of the World Wide Web (CS) while searching online (IT).
- They will be developing their understanding of appropriate online behaviour (DL) while learning how to search the Internet (IT).

Both Key Stages

- At all times children will be learning about using technology safely and respectfully (DL).
- In most units for all strands, children will be developing their general information technology skills (IT).
- This overlap, repetition and reinforcement helps give children a deeper understanding of the knowledge and skills across all strands, and of their integrated nature in the real world.

*For more detailed information to assess pupils, see the assessment statements at the end of each unit and repeated in the Assessment document for each year group.

Introduction to Purple Mash

National Curriculum Links	Dominant objectives for this unit: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use technology safely and respectfully, keeping personal information private.
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Declarative - By the end of the unit the students will know that:	Procedural – By the end of the unit the students will know how to:
<ul style="list-style-type: none"> It is important to log in to a site, the importance of keeping passwords safe and the need to log out at the end of a session. 	<ul style="list-style-type: none"> Access Purple Mash from home and school. Log out of Purple Mash. Give reasons why it is important to keep a password safe and not share it with other people.
<ul style="list-style-type: none"> An avatar is a virtual representation of a person suitable for use online. 	<ul style="list-style-type: none"> Make and edit their own avatar.
<ul style="list-style-type: none"> The 2Do system allows teachers to assign tasks to children within Purple Mash. 	<ul style="list-style-type: none"> Open 2Dos. Save 2Dos. Hand in 2Dos and communicate with their teacher via the 2Do.
<ul style="list-style-type: none"> Online sites have a main page called the homepage. 	<ul style="list-style-type: none"> Access the Purple Mash homepage when on the site.
<ul style="list-style-type: none"> Online sites often use an alert system to communicate with the user. 	<ul style="list-style-type: none"> Access alerts within Purple Mash.
<ul style="list-style-type: none"> To move to a different activity in Purple Mash, you must first close the current activity. 	<ul style="list-style-type: none"> Close activities in Purple Mash.
<ul style="list-style-type: none"> Many online sites, including Purple Mash, have an area for an individual's work that is accessible only to the individual (and in Purple Mash to their teacher as well). 	<ul style="list-style-type: none"> Access their work area. Save work in their work area. Locate and open work they have done previously in their work folder.
<ul style="list-style-type: none"> To access Purple Mash programs, you use the Tools area. 	<ul style="list-style-type: none"> Open a specified tool.
<ul style="list-style-type: none"> You can access non-visible parts of a screen using scrolling. 	<ul style="list-style-type: none"> Scroll up and down and from side to side where applicable.
<ul style="list-style-type: none"> You can use a physical or on-screen keyboard to type upper and lower-case letters and spaces. 	<ul style="list-style-type: none"> Type upper and lower-case letters and spaces using the device available.

Creative Computing

National Curriculum Links	Dominant objectives for this unit: Use technology purposefully to create, organise, store, manipulate and retrieve digital content.
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Declarative - By the end of the unit the students will know that:	Procedural – By the end of the unit the students will know how to:
<ul style="list-style-type: none"> Art can be created using digital tools. 	<ul style="list-style-type: none"> Select colours and painting effects in 2Paint. Control a computer mouse. Use a mouse or finger (device dependent) to perform tasks.
<ul style="list-style-type: none"> Digital tools can be used to play and make simple games. 	<ul style="list-style-type: none"> Use drag and drop methods to complete games, including 2DIY jigsaws and placing activities. Use the image gallery to create jigsaw images. Use hotspots in 2DIY Placing games.
<ul style="list-style-type: none"> Extension: Purple Mash allows a user to share work for others to use on digital display boards. 	<ul style="list-style-type: none"> Share work to a Purple Mash Display Board. Access shared work on a Purple Mash Display Board.

Data Explorers

National Curriculum Links	Dominant objectives for this unit: Use technology purposefully to create, organise, store, manipulate and retrieve digital content.
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Declarative - By the end of the unit the students will know that:	Procedural – By the end of the unit the students will know how to:
<ul style="list-style-type: none"> Items can be grouped using a range of criteria, and a logical process should be used when doing so. 	<ul style="list-style-type: none"> Identify criteria that can be used to sort items into groups. Sort items using criteria. Describe how to logically sort items into groups.
<ul style="list-style-type: none"> Digital tools can be used to group images of items. 	<ul style="list-style-type: none"> Complete grouping questions in 2Quiz using given criteria.
<ul style="list-style-type: none"> Sorting is a way to organise items. 	<ul style="list-style-type: none"> Complete sequencing questions in 2Quiz using given sorting criteria.
<ul style="list-style-type: none"> Sorting and grouping have different meanings. 	<ul style="list-style-type: none"> Decide whether it is better to sort or group items to organise them.
<ul style="list-style-type: none"> Data is information that can be collected and used. 	<ul style="list-style-type: none"> Identify items to be grouped or sorted as examples of data that can be organised. Use data grouping and sorting to answer questions.
<ul style="list-style-type: none"> Data can be represented digitally using pictures. 	<ul style="list-style-type: none"> Create a pictogram using data from the class in 2Count. Answer questions about the class using the pictogram.
<ul style="list-style-type: none"> Before collecting data, you must think about how it can be used and what information to collect. 	<ul style="list-style-type: none"> Collect and record data. Input the data into the 2Count tool. Make a pictogram using 2Count. Answer questions using the pictogram.