

# **DigiTech Scheme of Work**

## **Unit 6.6 – Networks**



# Contents

Introduction .....	3
Medium-term Plan.....	3
Lesson 1 – The World Wide Web and the Internet.....	4
Aims .....	4
Success criteria .....	4
Resources .....	4
Activities .....	5
Lesson 2 – Our School Network and Accessing the Internet.....	6
Aims .....	6
Success criteria .....	6
Resources .....	6
Activities .....	6
Lesson 3 – Research .....	8
Aims .....	8
Success criteria .....	8
Resources .....	8
Activities .....	8
Assessment Guidance .....	10

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# Introduction

The aim of these sessions is to provide children with the opportunity to find out more about how networks work, understand computer networks including the Internet, learn how they can provide multiple services, such as the World Wide Web, and explore the opportunities they offer for communication and collaboration.

**PLEASE NOTE:** Lesson 1 requires children to have completed a survey prior to the lesson. See the lesson plan for the link to the survey so you can ask children to do this in advance.

For these sessions, it is advisable that the children have their own individual logins to Purple Mash. If you are currently using a single login per class or group and would like to set up individual logins yourself, then please see our guide to doing so at [Create and Manage Users](#). Alternatively, please contact support at [support@2simple.com.au](mailto:support@2simple.com.au) or Tel: +61 (0)380 015 024

Acknowledgements: BBC website.

## Medium-Term Plan

Lesson	Title	Success Criteria
<u><a href="#">1</a></u>	The World Wide Web and the Internet	<ul style="list-style-type: none"> <li>Children know the difference between the World Wide Web and the internet.</li> <li><b>Extension:</b> Children can provide examples of the difference between the World Wide Web and the Internet.</li> </ul>
<u><a href="#">2</a></u>	Our School Network and Accessing the Internet	<ul style="list-style-type: none"> <li>Children know about their school network.</li> <li><b>Extension:</b> Children can explain the differences between more than two network types such as: LAN, WAN, WLAN and SAN.</li> </ul>
<u><a href="#">3</a></u>	Research	<ul style="list-style-type: none"> <li>Children have researched and found out about Tim Berners-Lee.</li> <li>Children have considered some of the major changes in technology which have taken place during their lifetime and the lifetime of their teacher/another adult.</li> </ul>

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# Lesson 1 – The World Wide Web and the Internet

## Aim

- To discover what the children know about the Internet.

## Success criteria

- Children know the difference between the World Wide Web and the Internet.
- Children can provide examples of the difference between the World Wide Web and the Internet.

## Resources

Unless otherwise stated, all resources can be found on the [main unit 6.6 page](#). From here, click on the icon to set a resource as a 2Do for your class. Use the links below to preview the resources; right-click on the link and 'open in new tab' so you don't lose this page.

- **PLEASE NOTE: Lesson 1 requires children to have completed a questionnaire prior to the lesson. Use this link for the [questionnaire](#) so you can ask children to do this in advance.**
- Create a **collaborative 2Write** file called '**Survey Results**' and save this in a shared class folder. Set it up to reflect the survey, split into different age groups like this example:

**Survey Results**

**Under 30**

How did they communicate with their friends when they were at primary/secondary school?

Can they remember when the internet first started being used by people or when they first used email? Can they tell you a bit about what it was like compared to today?

**30-60**

How did they communicate with their friends when they were at primary/secondary school?

Can they remember when the internet first started being used by people or when they first used email? Can they tell you a bit about what it was like compared to today?

**60+**

How did they communicate with their friends when they were at primary/secondary school?

Can they remember when the internet first started being used by people or when they first used email? Can they tell you a bit about what it was like compared to today?

- [2Write User Guide for reference](#)

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- Purple Mash [2Connect tool](#). This is accessed by going to Tools>Communicating and Sharing>2Connect. It could be set as a 2Do for children.
- BBC Bitesize resources.

## Activities

Introduction	Display <b>slide 2</b> and outline the lesson aims. Display <b>slide 3</b> and outline the success criteria
Activity 1: Survey results	Use <b>slide 4</b> to direct children to the activity. Responses should appear real time on the 2Write file, this could be displayed on the whiteboard whilst children work. Responses will be reviewed later in the lesson.
Activity 2: Internet Ideas	Use <b>slide 5</b> to direct the activity. If children have been following the DigiTech scheme of work, they will have used 2Connect in the past. If they have not, it might be useful to watch the help videos within the tool to provide a quick overview. These can be accessed from within 2Connect using the  button on the top right.
Questionnaire Reflections	Use <b>slide 6</b> , discussion will depend upon the responses collected.
Video	Use <b>slide 7</b> , click on the image to open the BBC Bitesize page and watch the video.
Vocabulary	Use <b>slide 8</b> to reflect on what was in the video.
Activity 3: Extension	Use <b>slide 9</b> to extend children's understanding.
Review Success Criteria	Review the success criteria from <b>slide 3</b> . Children could rate how well they achieved this using a show of hands.

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# Lesson 2 – Our School Network and Accessing the Internet

## Aims

- To find out what a LAN and WAN are.
- To find out how we access the internet in school.

## Success Criteria

- Children know about their school network.
- Children can explain the differences between more than two network types such as: LAN, WAN, WLAN and SAN.

## Resources

- It would be useful to have your school technician come into the classroom and talk to the children about the school network.
- A router, network cables, modem.
- Resources within the school network
- 2Connect or 2Chart tool.

## Activities

Introduction	Display <b>slide 2</b> and outline the lesson aims. Display <b>slide 3</b> and outline the success criteria.
Devices in the Classroom and in the School	Use <b>slide 4</b> to guide an exploration of the classroom.
	Use <b>slide 5</b> to start thinking about a network in school and what this means.
Network components	Take the children through the devices that are part of a local area network using slides <b>6 – 10</b>  If you have examples, show them to the children.
Activity 1: Technician Talk and Learning Walk	<b>Slide 11</b> - If you have a technician available to talk to the children about the school network and to answer their questions this would be useful. The children could go on a learning walk with the technician around the school to answer the questions in this lesson.  Ensure that the technician has a copy of the questions.

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Activity 2: Diagram	Upon returning to the classroom, use <b>slide 12</b> to direct children in a task. They can choose to use either tool to do this. This could be done individually or as a whole class task. Clicking shows some examples.
Wide Area networks	Use <b>slides 13-14</b> to consider networks covering more than one geographical site.
Activity 3: Extension	<b>Slide 15</b> contains extension tasks that children might need to research for. <b>Slide 16</b> contains some possible solutions.
Review Success Criteria	Review the success criteria from <b>slide 3</b> . Children could rate how well they achieved this using a show of hands.

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# Lesson 3 – Research

## Aims

- To research and find out about the age of the internet.
- To think about what the future might hold.

## Success criteria

- Children have researched and found out about Tim Berners-Lee.
- Children have considered some of the major changes in technology which have taken place during their lifetime and the lifetime of their teacher/another adult.

## Resources

Unless otherwise stated, all resources can be found on the [main unit 6.6 page](#). From here, click on the icon to set a resource as a 2Do for your class. Use the links below to preview the resources; right-click on the link and 'open in new tab' so you don't lose this page.

- Access to the internet.
- Set the activity [Sir Tim Berners-Lee Profile](#) as a 2Do for the class.

## Activities

Introduction	Display <b>slide 2</b> and outline the lesson aims. Display <b>slide 3</b> and outline the success criteria
Searching the Internet	Use <b>slide 4</b> , clicking reveals questions and answers. Children who have followed the scheme of work will have learnt in detail about search engines in units 2.5 and 4.7
Activity 1: Concept map	Use <b>slide 5</b> to introduce this activity. The link is clickable, this could be done using a collaborative 2Connect file. See the <a href="#">2Connect user guide</a> for more information.  <b>Slide 6</b> contains an example concept map.
Activity 2: Sir Time Berners-Lee	Use <b>slides 8 – 9</b> to introduce the activity. Clicking reveals answers and information.
Changes In Your Lifetime	Use <b>slides 9-10</b> to help children think about the changes in technology that they have seen so far in their lifetime.  Clicking reveals some images to help children remember. Talk to the children about the changes in technology that you have seen as an adult.

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Review Success Criteria	Review the success criteria from <b>slide 3</b> . Children could rate how well they achieved this using a show of hands.
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# Assessment Guidance

The unit overview for Year 6 contains details of national curricula mapped to the Purple Mash Units. The following information is an exemplar of what a child at an expected level would be able to demonstrate when completing this unit with additional exemplars to demonstrate how this would vary for a child with emerging or exceeding achievements.

Assessment Guidance	
Emerging	Children are aware there is a difference between the Internet and the World Wide Web and can show all the things they use the internet for using 2Connect (Unit 6.6 Lesson 1). Children know there are different network types such as WAN and LAN and can provide some insight into how they access the internet at school (Unit 6.6 Lesson 2).
Expected	Children can explain the difference between the Internet and the World Wide Web and can show all the things they use the internet for using 2Connect (Unit 6.6 Lesson 1). Children know what a WAN and LAN are and can describe how they access the internet in school (Unit 6.6 Lesson 2).
Exceeding	Children know difference between the Internet and the World Wide Web and can provide examples. They can show the main uses for the internet using 2Connect (Unit 6.6 Lesson 1). Children can explain the differences between more than two network types such as: LAN, WAN, WLAN and SAN. In greater detail, children can describe how they access the internet at school and the hypothetical connections their DigiTech device makes (Unit 6.6 Lesson 2).

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