

Computing Scheme of Work Unit 2.5 –

Effective Searching



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Introduction

Skilful searches are essential for 21st-century learning and information literacy. With abundant information at our fingertips, it is important to teach and reinforce good searching.

In Lesson 1, the children will look at the Internet, web, browsers and search engines. After becoming acquainted with the basics of the Internet and how it works, students will be ready to dive into searching with Google.

In Lesson 2, you will teach the children the basics of search: where to type in their query and how to understand the pages of results. The children will look at the main pages and buttons they will encounter while using search engines.

These lessons allow the children to develop an understanding of what the Internet is. It will also give them the basic tools to help them search for information more effectively.

The lessons are not tied to a browser, but the screenshots are all from Chrome.

Some of the resources and tasks have been adapted from those published by Google under Creative Commons Attribution-Share Alike:

<https://sites.google.com/site/gwebsearcheducation/lessonplans>.

These lesson plans make use of the facility within Purple Mash to set activities for children that they can then complete and hand in online (2Dos). This enables you to assess their work easily as well as distribute resources to all children. If children have not opened 2Dos before, they will need more detailed instructions about how to do this.

If your children do not have individual logins for Purple Mash, we can help you with this. Contact your school Purple Mash administrator or email us at support@2simple.com.

A teacher's guide to 2Dos can be found in the Teacher section: [2Dos Guide](#).



Medium-Term Plan

Lesson	Title	Success Criteria
<u>1</u>	Understanding the Internet and Searching	<ul style="list-style-type: none">• Children can recall the meaning of key Internet and searching terms.• Children have completed a quiz about the Internet.
<u>2</u>	Searching the Internet	<ul style="list-style-type: none">• Children can identify the basic parts of a web search engine search page.• Children have learnt to read a web search results page.• Children can search the Internet for answers to a quiz.
<u>3</u>	Sharing Knowledge of the Internet and Effective Searching	<ul style="list-style-type: none">• Children have created a leaflet to consolidate knowledge of effective Internet searching.

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Lesson 1 - Understanding the Internet and Searching

Aim

- To understand the terminology associated with the Internet and searching.

Success criteria

- Children can recall the meaning of key Internet and searching terms.
- Children have successfully completed a quiz about the Internet.

Resources

Unless otherwise stated, all resources can be found on the [main unit 2.5 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 do not lose this page.

- [Internet quiz](#); this is available as a Purple Mash quiz that you can set as a 2Do for your class. It is also available as a paper-based version to photocopy for your class: [Internet Quiz – Lesson 1 – Worksheet 1](#).
- The answers are at [Internet Quiz – Lesson 1 – Worksheet 1 – Answers](#).
- Extension: Set the Developing Tray activity [Can you decode?](#) As a 2Do for children. If you are not familiar with the Developing Tray tool, refer to the [User Guide](#).

Activities

Introduction	Display slide 2 and outline the lesson aims. Display slide 3 and outline the success criteria.
Introduction: The Internet and Searching.	Display slide 4 . Explain to the children that we will be finding out about the internet how we access the Internet to find content. Reveal each question by clicking and then the answers as discussions evolve.
Introduction: Browsers	Display slide 5 . Use the slide to share what a browser is and see how many children can name different well-known browsers.
Introduction: Websites and Webpages	Use slide 6 to ensure the children understand what a website is and that it contains individual pages (webpage).

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Introduction: Web address and search engines	Display slide 7 . Identify what a web address is and that these are also called URLs. Show children a few examples. Go through what a search engine is. It's important that children understand that a browser and a search engine are different. Browsers allow access to the World Wide Web and often default to a search page. From a browser such as Google Chrome you can still access other search engines such as Yahoo.
Activity 1: Quiz	Use slide 8 to share the activity. Children should complete the quiz which you set as a 2Do testing their knowledge. Clicking the icon will open the quiz on the board for review or demonstration.
Activity 2: Extension	Use slide 9 to share the extension activity. Children should use the developing tray activity to try and develop a text with missing words and characters based on their learning this session. You might choose to do this as a whole class or have this set as individual 2Dos. Clicking the icon will open the activity.
Review Success Criteria	Use slide 10 to evaluate success of meeting success criteria.



Lesson 2 - Searching the Internet

Aim

- To gain a better understanding of searching the Internet.

Success criteria

- Children can identify the basic parts of a web search engine search page.
- Children learnt to read a web search results page.
- Children can search the Internet for answers to a quiz.

Resources

Unless otherwise stated, all resources can be found on the [main unit 2.5 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 do not lose this page.

- A search engine. For the lesson screen shots, Google has been used as this is what many of the children will be familiar with at home.
- [Lesson 2 – Worksheet 1](#) – Finding out about dinosaurs. Each child will need a copy; this is at the end of this document.
- [Lesson 2 – Worksheet 1 – Finding out about dinosaurs – Answers](#).
- [Dinosaur Quiz](#): Set this as a 2Do for the class.

Activities

Introduction	<p>Before starting the session, it might be appropriate to remind the children about online safety and your school approach.</p> <p>Display slide 2 and outline the lesson aims.</p> <p>Display slide 3 and outline the success criteria.</p>
Introduction: Searching the Internet	<p>Display slide 4. Explain that we will be finding out how to search using the Internet. Discuss and find out what children know about search engines.</p>
Using a Search Engine	<p>Display slide 5. Go through the layout of the search engine home page as you reveal the slide. Demonstrate on a live browser entering a search term such as 'dinosaurs. Ask the children to observe what happens when you</p>

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	press enter, click 'Google Search' and click 'I'm Feeling Lucky.'
Results	Display slide 6 . Go through the search results page with the children. You might wish to do this live instead of using the slide. Focus the children on the key areas of the results page.
Search Tools	Use slide 7 to focus in on the use of the 'Search Tools'. Again, you may wish to demonstrate this live. Discuss the key questions on the slide with the children and explore the different results they produce. Reinforce the need to be cautious when searching, particularly if clicking on the image or video tool as these could display inappropriate content incorrectly tagged.
Words and Questions	Display slide 8 . Explain to the children that as well as putting in a word as a search query we can also ask a question. You may wish to do this live on a search engine to show and compare results.
Digital Footprint	Use slide 9 to find out what the children know about how search engines give results. Lead onto a short discussion about Digital Footprint and how every online interaction almost always leaves a lasting Digital Footprint. Link to online safety approach within school.
Activity 1: All about Dinosaurs	Use slide 10 to share the main activity. You should have provided each child or pair with the worksheet. Children to use a search engine to help answer the questions. You might want them to use two different search engines to compare results. After completing the worksheet, they can have a go at testing if their answers are correct by using the quiz (set as a 2Do).
Review Success Criteria	Use slide 11 to evaluate success of meeting success criteria.



Lesson 3 - Sharing Knowledge of the Internet and Effective Searching

Aim

- To create a leaflet to help someone search for information on the Internet.

Success criteria

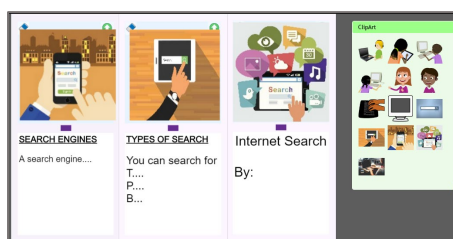
- Children have created a leaflet to consolidate knowledge of effective Internet searching.

Resources

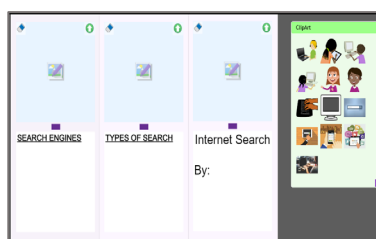
Unless otherwise stated, all resources can be found on the [main unit 2.5 page](#). From here, click on the icon to set a resource as a 2Do for your class. Use the links below to preview the resources; right-click on the link and 'open in new tab' so you do not lose this page.

- [Search Leaflet Example.pdf \(Example PDF\)](#)
- [Search Leaflet Example \(Example Purple Mash\)](#)
- Set one of the following templates as a 2Do for the children in your class. There are three differentiated templates, so you could set different ones for different ability groups within the class.
 - [Search Leaflet 1](#): This template has the pictures in place and requires the children to complete the simple sentences.
 - [Search Leaflet 2](#): This template has heading for each of the sections on the leaflet. The children select clipart from the clipart bank.
 - [Search Leaflet 3](#): This template is blank and has a clipart bank of suitable resources.

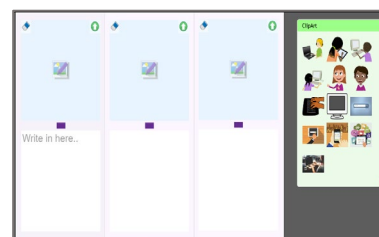
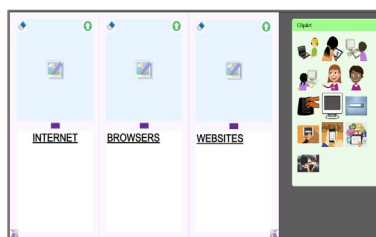
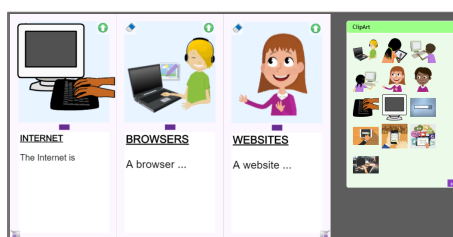
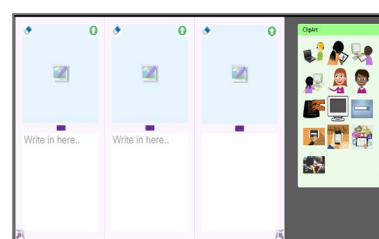
Search Leaflet 1



Search Leaflet 2



Search Leaflet 3



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Activities

Introduction	<p>Display slide 2 and outline the lesson aims.</p> <p>Display slide 3 and outline the success criteria.</p>
Activity 1: Sharing our Knowledge	<p>Display slide 4. Explain to the children that they will be creating their own leaflets to share their knowledge with others about their learning. Ask the children what the leaflet would need to include. You could reveal the slide or thought shower using 2Connect (Link on slide). After you have agreed contents and layout of the leaflet, show them the example leaflet (Link on slide). Children to then create leaflet using one of the templates you have set as a 2Do.</p>
Activity 2: Extension	<p>Display slide 5. Share the extension activity with the children. Children to have a go at creating a quiz based on their learning. Reveal the steps and the tips needed to create a successful quiz. After completing, children could share their quiz to a blog for others to play and comment on.</p>
Review Success Criteria	<p>Use slide 6 to evaluate success of meeting success criteria.</p>



Name _____

Can you answer these questions about the Internet?



- 1) Fill in the missing words to help describe the Internet.

The I _____ is a n _____ of computers that are
c _____ together.

- 2) What is the difference between the World Wide Web and the Internet?

- 3) What is the tool that we use to access the Internet called?

Use these pictures as a reminder



- 4) Put a line under the right answer.

www.2simple.com is a website / webpage

www.2simple.com/contact is a website / webpage

- 5) Complete these sentences.



A web address is _____

A search engine is _____



1. Fill in the missing words to help describe the Internet.

The Internet is a network of computers that are
connected together.

2. What is the difference between the World Wide Web and the internet?

The World Wide Web is part of the Internet. The Internet also includes email, online gaming and messaging.

3. What is the tool that we use to access the Internet called?

Browser

4. Put a line under the right answer.

www.2simple.com is a website / webpage

www.2simple.com/contact is a website / webpage

5. Complete these sentences

A web address is the way to find a page or site on the Internet.

A search engine is a program to help find pages on the Internet.



Name _____

Use a search engine to answer these dinosaur questions.



1. Approximately how tall was the Tyrannosaurus Rex?

2. For how many million years did dinosaurs rule the Earth?

3. What did a triceratops eat?

4. In tonnes, how much did a diplodocus weigh?

5. Look at a picture of a stegosaurus. What was on the end of its tail?



1. Approximately how tall was the tyrannosaurus rex?	Between 4m & 6.1m
2. For how many million years did dinosaurs rule the Earth?	165
3. What did a triceratops eat?	Plants
4. In tonnes how much did a diplodocus weigh?	15
5. Look at a picture of a stegosaurus. What was on the end of its tail?	Spikes



Assessment Guidance

The unit overview for Year 2 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	<p>With support, children can retrieve relevant digital content using a search engine.</p> <p>Children understand the basic terminology of internet, such as: internet, search, webpage and world wide web (Unit 2.5 Lesson 1). Furthermore, they can identify the layout points and features of a search engine (Unit 2.5 Lesson 2) such as- 'search bar', 'number of results' and 'key information'. Using this knowledge, they can attempt a simple quiz about the internet (Unit 2.5 Lesson 1).</p> <p>Using 2Publish+, children can create a leaflet to demonstrate what they have learned- this may demonstrate a limited understanding but is factually correct (Unit 2.5 Lesson 3).</p> <p>Children can apply their learning of effective searching beyond the classroom.</p>
Expected	<p>Children can effectively retrieve relevant, purposeful digital content using a search engine.</p> <p>Children understand the terminology (Unit 2.5 Lesson 1), layout and features of a search engine (Unit 2.5 Lesson 2). Using this knowledge, they can answer a quiz about the internet (Unit 2.5 Lesson 1).</p> <p>Children can apply their learning of effective searching beyond the classroom.</p> <p>In lesson 2, children can relate the creation of a digital footprint to their search history and make contributions to the class discussion about this.</p> <p>Most children will plan and create their own leaflet within Purple Mash which shares their learning about safe searching. They will actively seek out the most appropriate template to use from the three suggested ones which will bring their plan to life (Unit 2.5. Lesson 3).</p> <p>Most children can successfully find the solutions for answers to a problem or quiz using a search engine (Unit 2.5. Lesson 2). They understand that they do not have to search for just words, they can also ask a search engine a question (Unit 2.5. Lesson 2).</p>
Exceeding	<p>Independently, children can effectively retrieve relevant, purposeful digital content using a search engine and can alter the search phrase to yield relevant results. Children understand the terminology (Unit 2.5 Lesson 1), layout and features of a search engine (Unit 2.5 Lesson 2) and use this to assist with its</p>

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Assessment Guidance

effective operation. Using this knowledge, they can answer a quiz about the internet (Unit 2.5 Lesson 1).

Using 2Publish+ children can create a detailed leaflet, containing correct terminology and accurate explanations of the features and layout of effective searching. This consolidates their acquired knowledge (Unit 2.5 Lesson 3).

Children can apply their learning of effective searching beyond the classroom.