

## Medium term Plan for Computing

Year 4- Computer systems and Networks- Autumn 2

### Search engines



**Hook:** Game/Quiz- Children will be introduced to the unit with a fasted finger first game. The children will be shown a webpage and asked to get on to the webpage as quickly as possible. This then progresses to finding specific information. The game then will lead into a class discussion about the most effect ways to 'search'

**Topic Outcome:** Children will be able to understand how search engines work and develop search skills to find relevant and accurate information

**Topic Reflection:** Children will replay the fasted finger first game, reflecting on an improvement from previous. Connecting any improvement with a learned skill. Children will create an information poster ensuring any copyright rules are followed

#### Statutory requirements:

#### Vocabulary

#### KS1 Statutory Requirements

- Recognise common uses of information technology beyond school.
- Use technology safely and respectfully.
- I know the main components that make up a computer

#### KS2 Statutory Requirements

- Understand computer networks including the internet.
- Understand the opportunities networks offer, such as communication and collaboration.
- I know the main components that make up a netw

#### Tier 1:

Algorithm, correct, inappropriate, information, privacy, search engine, fair, incorrect, keywords website, fake, network, real

#### Tier 2:

Deceive, appropriate, credit, rank, index, web crawler

#### Tier 3:

TASK, copyright, data leak,



#### Previous Skills

Children can type using all fingers.  
Children know how to use word processing software.

#### Previous Knowledge

Children know that we can break tasks down into smaller bits.

#### Previous Understanding

Children know how to log in and understand how to navigate a computer more purposely. Children

Children can understand that you can find information from a website. Children can use a simple password when logging on.	Children know that 'log in' or 'log out' means to start or end a connection with a computer. Children know that passwords are important for security and to keep us safe. Children know that all computers have 'inputs' and 'outputs'.	understand how to drag, drop, click and control the cursor using a mouse. Children know that technology follows instructions and can recognise different types of technology.
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	<u>Concept</u>	<u>Learning Objective</u>	<u>Lesson Outcome</u>	<u>Success criteria</u>	<u>Vocabulary</u>
<b>Lesson 1</b>	Searching basics	LO: To understand what a search engine is and how to use it.	Children will test their search skills by finding specific websites or information as fast as possible.	I can explain what a search engine is. I can use a search engine to navigate the web. I can suggest keywords for searching.	Data leak, data privacy, network, online, search engine, website.
<b>Lesson 2</b>	Inaccurate information	LO: To be aware that not everything online is true	Children will understand that not everything online is true.	I can recognise that not everything online is true. I can understand anyone can create a website. I can suggest ways of checking validity.	Correct, deceive, fake news, inaccurate information, real
<b>Lesson 3</b>	Web quest	LO: To search effectively.	Children will learn how to quickly find relevant information on a specific topic.	I can understand the importance of keywords. I can use the acronym TASK. I can use my search skills to answer focused questions	Keywords, TASK

Lesson 4	Information poster	LO: To create an informative poster	Children will ensure appropriate credit for images and videos is used when creating an informative poster.	I can include a title and at least five facts. I can choose appropriate pictures, colours and designs. I can consider fair use. I can credit people for information, images and videos I use.	Copyright, credit, fair, inappropriate
Lesson 5	Web crawlers	LO: To understand how search engines work.	Children will develop an understanding of web indexes, what can affect page rank and the role of web crawlers.	I can understand the role of a web index. I can explain what web crawlers are. I can discuss page rank.	Algorithm, index, page rank, search engine, web crawler.
Endpoints:	<p><b>Knowledge:</b> I know how search engines work. I know that anyone can create a website and therefore we should take steps to check the validity of websites. I know that web crawlers are computer programs that crawl through the internet. I know what copyright is.</p> <p><b>Skills:</b> I can use my search skills to help find relevant information on the internet. I can use search engines effectively to find information, focussing on keyword searches and evaluating search returns. I can recognise how different forms of communication have developed with the use of technology. I can recognise that information on the internet might not be true or correct and learning ways of checking validity.</p>				

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