

Online Searchers and Surfers: The Weakest Links












National Curriculum Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Understand computer networks including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration. Aim To know how to use and compare different website links to find reliable information online.		Lesson Duration It is estimated that this lesson will take approximately 60 minutes.
Success Criteria I can select a safe search engine to find information. I can identify how to trust if a website is safe. I can compare two websites for reliable information. I can bookmark a web page. I can use tabs on a web browser to compare information on web pages.	Key Vocabulary: Address bar, bookmarks, domain extension, padlock, search engine, search returns, tabs, top-level domain (TLD) , Uniform Resource Locator (URL), web browser.	
Resources Lesson Pack PC devices, such as laptops, Chromebooks and/or tablets Colouring pencils or highlighters	Preparation Differentiated Reliable Links Activity Sheet - one per child - one per child Access to National Geographic Kids - Zebra Facts <hr/>	



Prior Learning: In the previous lesson, children will have learnt the difference between a web browser and search engine. They will have had the opportunity to carry out safe searches using a variety of search engines and know how to type in a website address in the URL address bar.

Learning Sequence

	Remember It: Using the Lesson Presentation , ask the children to use their Knowledge Organisers to identify what they already know by highlighting this in one colour and then highlighting what they are not sure of, in a different colour.	
	Search Engines: Using the Lesson Presentation , ask the children which search engines they can remember from the last lesson. Have they used any different ones since?	
	Safe Returns: Using the Lesson Presentation , look at these slides to identify what the children should be looking for when making safe searches. Discuss how it may be useful to look past adverts and sponsored links to find more accurate information. Discuss how it is important to look at the URL, in particular the HTTPS and domain extensions to assess whether the web address is trustworthy.	
	Padlocks: Using the Lesson Presentation , show the children the illustrations of a secure and unsecure website. Ask the children to explore finding websites that display the padlock in the URL address bar.	
	Bookmarking: Using the Lesson Presentation , explain that we can use bookmarks to log websites we would like to return to in the future. Demonstrate bookmarking by opening a website and clicking on the star in the URL address bar to save it. Can the children remember how to identify if the web page you are bookmarking is safe?	

	<p>Using Tabs: Using the Lesson Presentation, explain that we use tabs to keep web pages open for us to easily access. Demonstrate by opening tabs on your web browser and moving between these tabs.</p>	
	<p>Reliable Links Activity Sheet: Using the Lesson Presentation, explain to the children that they will now be using different websites to find the same answer to a question.</p> <div style="display: flex; justify-content: space-around;"> <div>  <p>The children will be given questions they must find the answers to. They will record the two websites they have used to find the correct answer, ensuring they are safe websites to use.</p> </div> <div>  <p>The children will be given questions they must find the answers to. They must use two websites to cross-reference their results.</p> </div> <div>  <p>The children will be given questions they must find the answers to, using three websites to cross-reference their answers. They can then create their own questions and test a partner or complete this individually.</p> </div> </div>	
	<p>Find it: Using the Lesson Presentation, show the children how to find specific words on a web page to locate the precise information they are after. The children can then work as a class to find facts based on Zebras. There are three searches they need to make using the National Geographic Kids - Zebra Facts link: _____. Explain that if we search for 'stripe', there will be more returns than stripes (adding the s).</p> <p>Can the children explain why they think it may be useful to bookmark a URL address?</p>	
	<p>Quiz Time: Using the Lesson Presentation, give the children time to answer the questions based on what they have learnt in the session.</p>	

Exploreit

Researchit: Can the children find out what the different domain extensions mean? Give them a list including: .co.uk, .com, .org, .gov, .net. What would a domain extension look like if the website's origin is in another country? We live in the UK and are familiar with .co.uk. What if we were to look at a french website?

Presentit Ask the children to create a poster or fact file, which highlights all of the ways to look out for safe links to access web pages.

Debugit Using the title 'The Weakest Links', get the children to create a list of websites. These should be a mixture of safe and unsafe web pages and links. Encourage the children to choose websites they already know such as <https://www.bbc.co.uk/bitesize>. They should use their knowledge from the lesson to ensure they can create 'fake' websites, such as <http://freegamestodownload.gamez>. They could even draw a URL address bar with the omission of a padlock.

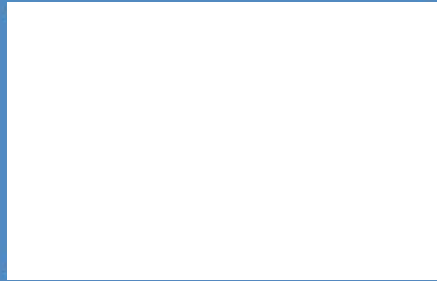
Unscrambleit: Children require access to Twinkl Go! where they can play [_____](#). The children will be given clues to help them unscramble the correct keywords.

Assessment Notes:

Disclaimers:

We hope you find the information on our website and resources useful. This resource contains links to external websites and/or external apps. Please be aware that the inclusion of any link in this resource should not be taken as an endorsement of any kind by Twinkl of the linked website and/or app, or any association with its operators. You should also be aware that we have no control over the availability of the linked pages and/or apps. If the link is not working, please let us know by contacting TwinklCares and we will try to fix it although we can assume no responsibility if this is the case. We are not responsible for the content of external sites and/or external apps.

This lesson involves children searching on the Internet. Please be mindful of search terms/topics used and connotations that could result in inappropriate links and pages. Child-friendly search engines are advised. Ensure your firewall settings are set at the appropriate levels necessary and your anti-virus software is up to date. It is good practice to ensure screen content can be seen at all times and that children know what to do if they see something on the Internet that makes them feel uncomfortable.

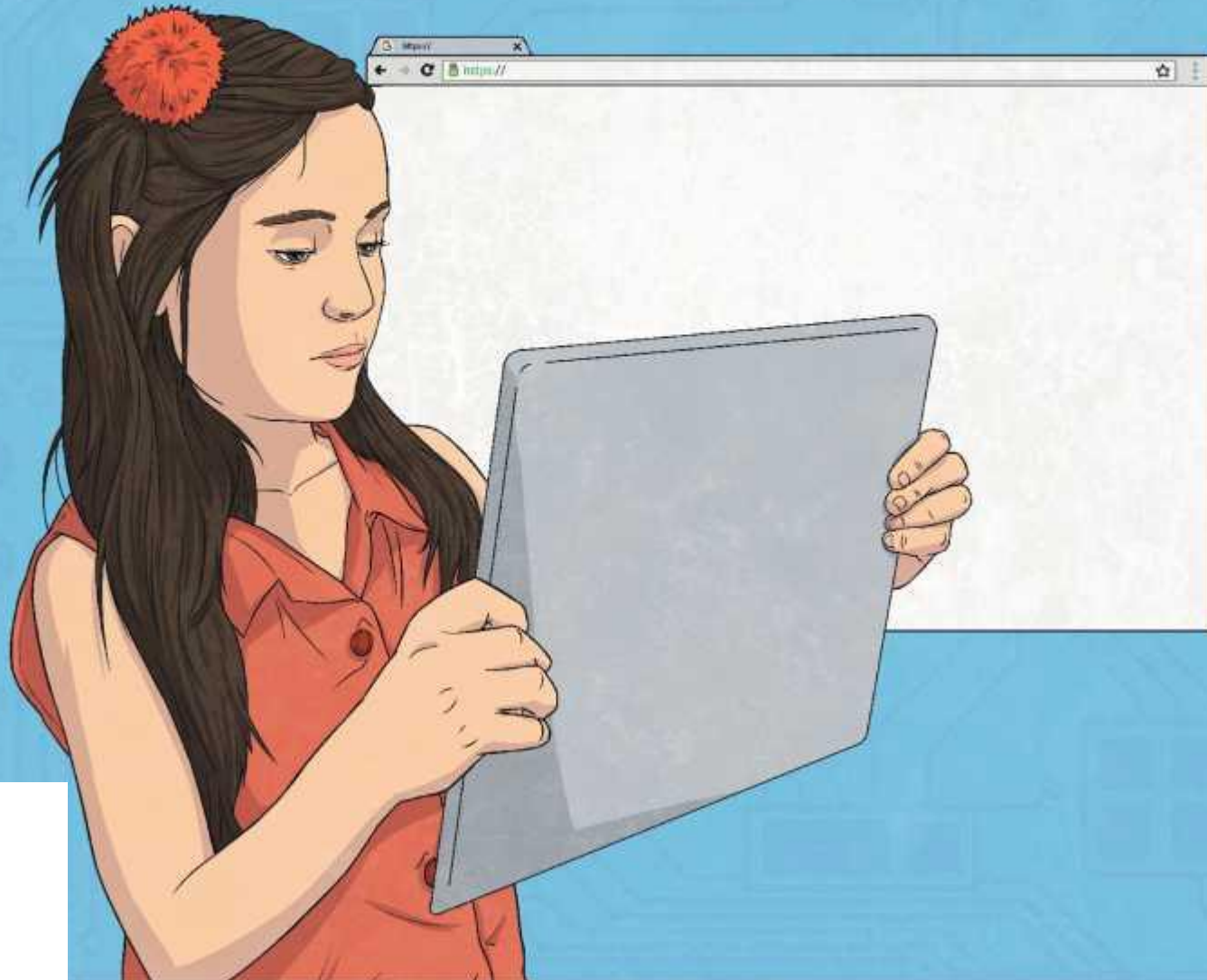


Computing

Online Searchers and Surfers

Computing | Online Searchers and Surfers | The Weakest Links | Lesson 4

The Weakest Links



Question Marks

**This is Quizby.
He is a question mark who
loves to ask questions.**



When you see a question mark icon like this in the **Lesson Presentation**, it can be clicked on to reveal one of Quizby's questions.



The questions that appear next to these question marks will help you to think about the key learning throughout the lesson.

Aim

- To know how to use and compare different website links to find reliable information online.

Success Criteria

- I can select a safe search engine to find information.
- I can identify how to trust if a website is safe.
- I can compare two websites for reliable information.
- I can bookmark a web page.
- I can use tabs on a web browser to compare information on web pages.

Remember It

Use your **Knowledge Organiser** to look at what you have learnt so far.

Can you test a partner on the different definitions? Use one colour to highlight or tick what you already know.

Are there any things you don't understand? Use a different colour to tick or highlight what you don't know yet.



Search Engines

Can you list the search engines you could use to find information? Discuss with your talk partners.

The Google logo, featuring the word "Google" in its signature multi-colored font.The Microsoft Bing logo, consisting of the four-pane Windows logo (red, green, blue, yellow) followed by the text "Microsoft Bing".The DuckDuckGo logo, featuring a cartoon duck's head in a red circle above the text "DuckDuckGo".The KidRex logo, with the word "KidRex" in a colorful, playful font.The Swiggle logo, featuring a cartoon robot character next to the word "Swiggle" in a yellow, bubbly font, with "CHILD FRIENDLY SEARCH" written below it.The Kiddle logo, featuring a red cartoon robot character above the word "Kiddle" in a colorful font, with the tagline "Safe visual search engine for kids" below it.

Safe Returns

When searching for something online, it is important to know what to look for when your results are returned.

When carrying out research, it is important to look for facts, rather than opinions.

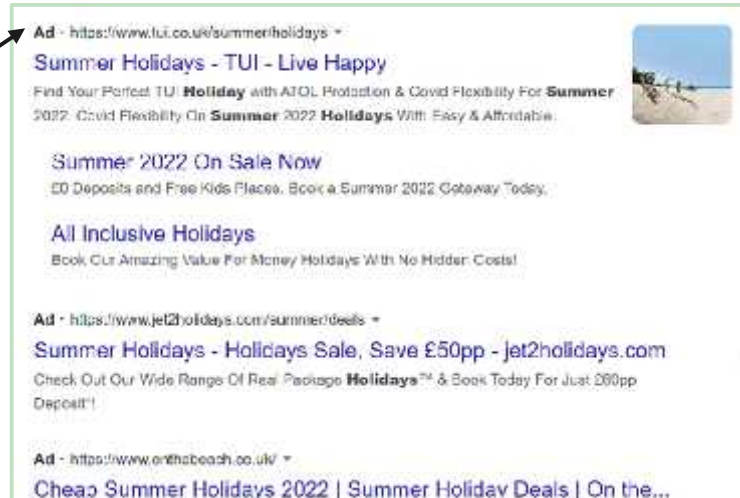
Using information from Wikipedia may not be encouraged for academic purposes as this is a website that can be edited by anyone.



Safe Returns: Adverts and Sponsored Links

When looking at results returned back to you, try to scroll down and check many results instead of clicking the first one that appears. Sometimes clicking the links that say 'Ad' next to them may not be what you are after.

As websites normally gain money from clicks they receive, it is important for many to try and push their web page as close to the top of the search returns as possible. Scammers (criminals who try to trick you online) often try to move their web page to the top of the search returns to try and trick people into clicking on their websites.



The screenshot shows a list of search results for 'summer holidays'. The top result is a sponsored link from TUI, marked with 'Ad' and a URL. It features a small image of a beach and the text 'Summer Holidays - TUI - Live Happy'. Below this are two organic search results: 'Summer 2022 On Sale Now' and 'All Inclusive Holidays'. The next result is another sponsored link from Jet2, also marked with 'Ad' and a URL, titled 'Summer Holidays - Holidays Sale, Save £50pp - Jet2holidays.com'. The final visible result is a sponsored link from On the Beach, marked with 'Ad' and a URL, titled 'Cheap Summer Holidays 2022 | Summer Holiday Deals | On the...'. An arrow points from the green text box on the left to the first 'Ad' result.

Safe Returns: Safe Links

It is always useful to look at the web addresses in your search returns.

Look at the part at the start of the URL address. If it has an 's' after http, this usually means that it is secure. This is one useful tip when thinking about whether a link is safe to click on.

<https://britishwildlifecentre.co.uk> : Plan Your Visit
Animals - British Wildlife Centre
Animals at the British Wildlife Centre : Adder · American Mink · Badger · Barn Owl · Black Rat · Brown Rat · Eagle Owl · Fallow Deer · Field Vole · Grass Snake.

<https://www.rspca.org.uk>
RSPCA: The Largest Animal Welfare Charity in the UK
We specialise in animal rescue & furthering the welfare cause for all animals. Click to learn more about & support the UK's leading animal welfare charity.

<https://www.gov.uk> : government > publications > nati...
National curriculum in England: computing programmes of study
11 Sept 2013 — National curriculum in England: computing programmes of study ... The statutory programmes of study and attainment targets for computing at key ...

At the end of a link is something called a domain extension. There are top-level domains (TLD) which you will be familiar with such as: .com, .co.uk, .org, and .gov. Top-level domains such as .org and .gov can often be trusted as they are from recognised source.



Padlocks

It is important to familiarise yourself with the address bar before you click on a link to a website. If there is a padlock, this means the website is secure and can be trusted. This is especially true when using a web page to enter personal information such as bank details when trying to buy something.



Using your computing device, can you find a website with a padlock on it?



Bookmarking

Sometimes you may find a website that you really like and would wish to visit again. Rather than having to type in the web page URL or having to search for the web page each time you access the Internet, you can save this page by clicking on the star in the address bar. This **bookmarks** the page.



On your computing device, have a go at bookmarking a page.

X

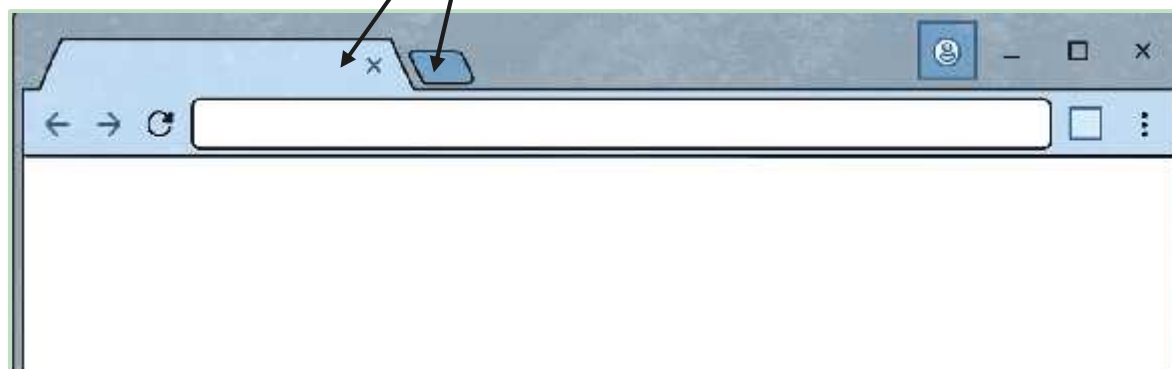
Can you remember how to identify if the web page you are bookmarking is safe?





Using Tabs

When using a web browser, you may wish to access more than one website at the same time. Rather than having to open and close a web page each time you use it, you can open new tabs with a different web page on each. You can then switch between the tabs.



It's now your turn to open two different tabs on your computing device. Access a different web page on each tab.



Reliable Links Activity Sheet

Using everything you have learnt so far, choose a search engine to use to search for the correct answers on your activity sheet. You must use two different websites to check that the information is correct. This particular skill is called cross-referencing. It is important to always make sure you use more than one source to trust its validity (how factually correct it is).

Reliable Links

To know how to use and compare different website links to find reliable information online

Use a search engine to find the correct answer to the question. Copy the URL and website name of two different websites.

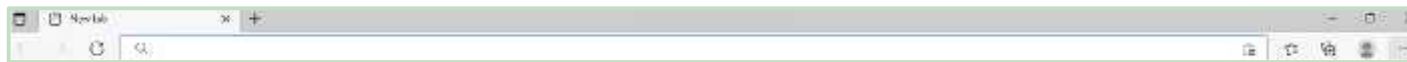
Question	Answer	Website 1	Website 2
What happened on this day 100 years ago?			
What is the smallest planet in the Solar System called?			
What do you call an animal that eats meat?			

Always remember: **Stop and think! Don't choose the weakest link.**



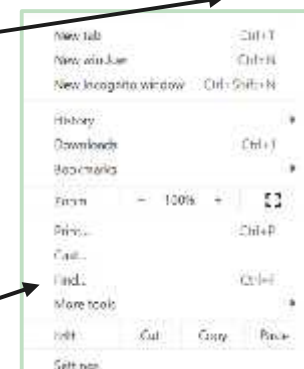
Find It!

When on a web page, you can use the find tool to find specific words on a page. This can save you from reading the whole document if you are only looking for a specific piece of information. You can also use the keys **Ctrl + F** on the keyboard to find specific information on a page.



Depending on your browser, if you click on the three dots in the top right-hand corner, a drop-down box appears.

You will then need to click on the word that says **find**. You can also use your keyboard and press on **Ctrl + F** at the same time.



Why do you think it may be useful to bookmark a URL address?





Find It!

- 1 Access a web browser.
- 2 Use a search engine.
- 3 Search for: zebra facts for kids.
- 4 Find the website:

<https://www.natgeokids.com/uk/discover/animals/general-animals/zebra-facts/>

Go to the three dots in the top-right and click on **find** or use **Ctrl + F**. How many times do these words appear?

Zebra = 54

Habitat = 4

Stripe = 8

Why do you think stripe had 8 answers and stripes has 7?

Quiz Time!

Can you name a safe search engine for children to use?

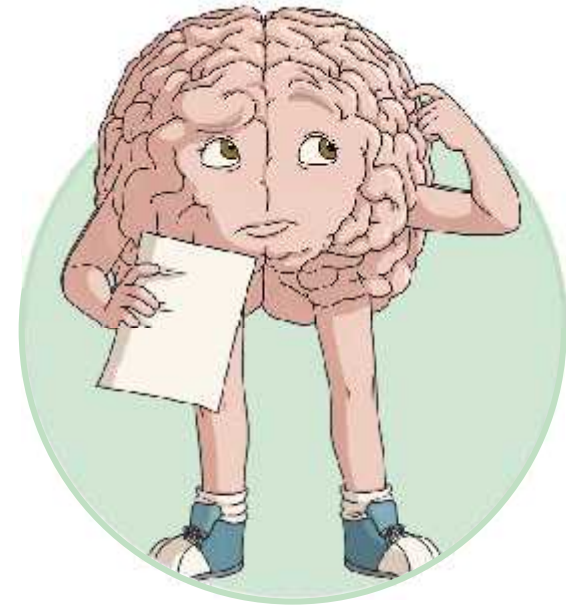
What is a URL?

What is a domain extension?

What are tabs and what does it allow you to do?

What is bookmarking?

Can you list ways to stay safe when clicking on a link?



Aim

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Use a search engine to find the correct answer to the question. Copy the URL and website name of two different websites.

Question	Answer	Website 1	Website 2
What happened on this day 100 years ago?		Work through safe websites as a class, based on the information learnt in the lesson.	
What is the smallest planet in the Solar System called?			
What do you call an animal that eats meat?			

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Question	Answer	Website 1	Website 2
What happened on this day 100 years ago?	This is dependent on the day the activity is carried out. Model searching for this together.		
What is the smallest planet in the Solar System called?	Mercury		
What do you call an animal that eats meat?	Carnivore		

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What is the largest planet in the Solar System?			
Who lives at 4 Privet Drive?			
What is a scientist who studies rocks called?			

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What is a scientist who studies rocks called?	geologist		

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Use a search engine to find the correct answer to the question. Copy the URL and website name of three different websites. Add your own questions to the sheet and cross-reference these answers.

Question	Answer	Website 1	Website 2	Website 3
What do you call a group of hedgehogs?				
What are the continents of the world? Can you place them in order of population size (smallest to largest).				
What is the capital of Australia?				

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What is the capital of Australia?	Canberra			

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