TECHNOSite

Teacher Guide

Lessons for Elementary School Students: Grades 3-6



Technology Course using

Google Sites

Become a web designer.

In this course, students become web designers. They construct a website that includes links to fun places for kids on the World Wide Web. Throughout the design process, students pay attention to the ease of navigation, overall appearance, and quality of the content. This will ensure their web pages will get the Kid Stamp of Approval.



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This section provides valuable information about teaching TechnoSite. It includes a description of the Teacher Guide, as well as an overview of the course. In addition, there are ideas for implementation and technology integration.

For additional guidance, open the course in TechnoHub and select Get Started to access preparatory steps, resource list, and scheduling timetable.

TechnoSite Overview

How to Use This Guide

Technology Integration Ideas

TechnoSite Overview

In this course, students become web designers. They construct a website that includes links to fun places for kids on the World Wide Web. Throughout the design process, students pay attention to the ease of navigation, overall appearance, and quality of the content. This will ensure their web pages will get the Kid Stamp of Approval.



- ➤ In Session 1, students become website critics. Before they can analyze web pages on the World Wide Web, they are introduced to Internet terminology. Afterwards, they examine websites and rate them according to ease of navigation, appearance, quality, and safety. They will use their knowledge of what makes a "kid-approved" website when they create their own web pages in the upcoming sessions.
- ➤ In Session 2, students learn various search strategies to help them find information fast on the World Wide Web. They apply this knowledge to locate a wide range of items. These skills will be applied in the upcoming session, when students find high-quality websites to include on their own web pages.
- In Session 3, students become web designers. To prepare for the task, they view an example website that has hyperlinks to interesting places on the World Wide Web for kids. Students examine the characteristics and rate the ease of navigation, appearance, quality, and safety. Next, they use the Internet to gather resources for their own website. The content of each page is planned by using the Website Organizer.
- ➤ In Session 4, students start to make their website using Google Sites. They begin by constructing a Home Page that includes a banner, title, and description. They use Layouts to add blocks of information about the topics.
- ➤ In Session 5, students continue to build their website. They follow instructions to insert several web pages. Each one is about a specific topic and will contain hyperlinks to fun places for kids on the WWW. Content on the Home page is joined to each web page to make it easy for visitors to navigate.
- ➤ In Session 6, the young web designers publish their websites to the World Wide Web. To prepare, students edit the content and appearance using a checklist as a guide. Next, they have a peer review of their website to test each hyperlink. Once the website is ready for viewers, they publish the website and share the link with classmates.

How to Use This Guide

This Teacher Guide contains the following:

Getting Started – This section contains a course description, as well as ideas for implementation.

Course Instructions – The course is comprised of six sessions, each focused on a problem-solving task that aligns with the project theme. Each session includes assignments that break down the task into manageable steps. The components of each session are as follows:

- Overview An explanation of the session activities and their purpose.
- Materials A list of handouts, sample files, templates, and teacher resource materials needed to teach the session.
- Teaching Strategies Instructional methods recommended for teaching the activities.
- Lesson Plan A detailed list of each step in the session.
- Learning Objectives A summary of the content knowledge and technical skills taught throughout the session.
- Assignments A session consists of assignments completed by students. Actions to be performed on the computer by the student are indicated with a triangle (▷).
 Background information is indicated with a dash (–).
- Review A session review contains a list of fill-in-the-blank, multiple choice, or short-answer questions intended to review Internet terms, web design knowledge, and Google Site tools. (Answers included).
- Skill Review An additional assignment intended to review Internet search or web design skills (includes completed sample).
- Extension Activity An additional activity that relates to the problem-solving task presented in the session.

Appendices – this section contains additional information or materials including the following resources.

- Assessment Tools Skill summary and marking sheet to evaluate the website.
- Glossary A definition of each term.
- Contact Information How to contact TechnoKids Inc. for curriculum support.

Technology Integration Ideas

TechnoSite combines digital citizenship with web design skills. In this STEM course, students publish a website that contains links to fun places kids can safely visit on the WWW. The activities are ideal for Grades 3-6. By adjusting the expectations, this course can also be used by older students. The emphasis is on discernment. Students must apply good judgement to curate a collection of high-quality sites. There are several ways to integrate TechnoSite into curriculum:

- STEM or ICT Course: Incorporate web design into an existing technology course. Engage students by having them select a topic of personal interest. They combine Internet search strategies with graphic design skills to publish a unique website. Their publication can be used by fellow classmates to locate fun things to do on the Internet.
- Integrated Unit: Infuse web design into any area of study. TechnoSite can be used to solidify learning in history, social studies, science, or geography. Websites can be built about a historical period, environmental issue, scientific finding, or destination. Divide the topic into sub-topics. Have students create a collection of informative sites that everyone in the class can use to learn.
- Web Design Course: Promote career readiness. Have students learn valuable skills they can transfer to the workplace or investigate with further study. The web design process in TechnoSite models the job of a web designer. Students plan, organize, create, edit, revise, and publish their website. Just like in the "real world" they apply collaboration skills to work with peers to enhance their project.
- Digital Citizenship Workshop Series: Emphasize digital citizenship. The theme throughout the course is discernment. Students apply good judgement when searching for Internet resources and during web development. Some extra activities that promote digital citizenship are Session 1 Skill Review: Rate Your Favorite Website, Session 1 Extension Activity: Examine Web Browser Settings, and Session 3 Review: Consider Your Digital Reputation.
- School Community Project: Design an authentic learning experience. Offer a creative solution to a real-world problem safe Internet use. Have students curate a collection of websites specifically for young children in Grades 1-3. Connect the publications to the school's website or blog. This will allow younger students to surf safely. Select a name for the school community project such as "Internet Buddies", "WWW Patrol", "Surf Safe Team", or "Web Force".





In this session, students learn various search strategies to help them find information fast on the World Wide Web. They apply this knowledge to locate a wide range of items. These skills will be applied in the upcoming session, when students find high-quality websites to include on their own web pages.

Assignment 6: Use Keywords to Find Information Fast

Assignment 7: Compare Search Engines

Assignment 8: Explore Search Engine Tools

Assignment 9: Be a Super Searcher

Session 2 Skill Review: Internet Scavenger Hunt

Session 2 Extension Activity: Discover Internet Resources

Session 2 Getting Started

Overview

In this session, students learn various search strategies to help them find information fast on the World Wide Web. They apply this knowledge to locate a wide range of items. These skills will be applied in the upcoming session when students find high-quality websites to include on their own web pages.

Materials

- Chrome web browser
- Site folder
 - o Super Searcher template (optional)
- Session 2 Skill Review: Internet Scavenger Hunt
 - Hunt template (optional)
- Session 2 Extension Activity: Discover Internet Resources

Teacher Preparation

(Refer to the Prepare to Teach section of this course for instructions)

- Make the Site folder available to students.
- Determine Search Engines: You may wish to state which search engines you prefer students to use.

Teaching Strategy

In this session, students learn how to find information fast on the World Wide Web. Explain scenario:

In this session, you learn tips for finding websites on the World Wide Web. This will help you to locate a wide range of information including webcams, e-cards, pictures, video clips, and sound clips. You can use your new search strategies to find great websites for kids.

Assignment 6: Use Keywords to Find Information Fast

In this assignment, students explore using keywords to locate web pages on the World Wide Web. They practice using a search engine to look for web pages that are fun for kids. The purpose of this assignment is for the students to practice and refine their use of keywords in searching. This is a skill they will need later when selecting links to include on their own website.

Remind students not to click on the first search result, just because it is at the top. This does not necessarily mean it is the best. In fact, often the first few search results are advertisements.

Introduce keyword searching tips:

- Use Keyword Suggestions Search engines list possible keywords in the search box and at the bottom of the search results page. Use these suggestions to find information fast.
- Scan the Search Results for Keywords Scan each search result for words that catch your interest. Study the website title, URL, description, and popular page listing.
- Try Different Keywords Change a word in the search box to a synonym (kid or children) or add an adjective (best) to get better results. A slight change can make a big difference in the number and quality of websites listed.

Introduce the following terminology:

- search engine: program that helps a user find information on the Internet by matching keywords to web pages stored in its directory
- keyword: word or phrase used to perform a search

Assignment 7: Compare Search Engines

In this assignment, students use more than one search engine to discover the difference in how they catalog information. Emphasize the need to use the same keyword when searching to make the results comparable. If your school has a list of approved search engines, have students use those instead to complete the activity.

Prior to beginning, describe the search engine features they will compare:

- easy to fine-tune search results provides ways to refine the search:
 - o additional keywords or phrases are located on the page are easy to see
 - o tools filter search results by type
- results are quick to scan formatting makes it easy to spot what you want:
 - o keywords are bolded
 - o images show web pages from a site
 - o popular web pages from a website appear in a list
 - o white space divides the information
- all results seem to be what you want results are related to the search:
 - o based on the title, URLs, and descriptions you can tell the results are appropriate
 - o there are very few ads
 - o there are no unrelated websites in the results

If time permits, have students compare other keywords or phrases to notice how they change the information shown. For example, search for a favorite sports team or actor.

Assignment 8: Explore Search Engine Tools

In this assignment, students explore Google tools to filter search results. Please note, the tools are updated from time to time. Encourage students to combine tools to narrow down the results even more. For example, select a *color* and *type*.

Assignment 9: Be a Super Searcher

In this assignment, students use their knowledge of search techniques to find information sources on the Internet. They should be high-quality. Emphasize the importance of finding resources that are suitable for children. To make the assignment easier for students to complete use the Super Searcher template. This file can be used to copy and paste a URL from the browser into the template.

Lesson Plan

Assignment 6: Use Keywords to Find Information Fast

- Read about the purpose of a search engine.
- Open the Google search engine.
- Use keyword suggestions to locate online games for kids.
- Scan the search results for keywords to determine the website that will have the best online games for kids.
- Complete the chart to compare different keywords. Determine which provides the best search results.
- Close the web browser.

Assignment 7: Compare Search Engines

- Open a web browser.
- Use a keyword phrase and select three search engines to compare results.
- Complete the chart to compare the features of search engines.
- Determine which search engine overall has the best features for finding online games.
- Close the web browser.

Assignment 8: Explore Search Engine Tools

- Open the Google search engine.
- Search for poodle puppy.
- Filter the search results by type including Images, Video, and All.
- Use the Image search engine tools to filter images by color or type.
- Explore search engine tools.
- Close the web browser.

Assignment 9: Be a Super Searcher

- Open the Super Searcher template in Google Docs.
- Open a new web browser tab.
- Apply search strategies to find Internet resources. Record the keyword and website name. Copy and paste the URL.
- Locate a website about a favorite thing. Record the keyword, website name, and URL.

Session 2 Skill Review: Internet Scavenger Hunt

If your students require more practice complete the Internet Scavenger Hunt. If students have strong search skills, you may want to add an extra challenge. Have each student use a timer. They should record their personal results for each item. Which was the fastest to find? Which took them the longest

Learning Objectives

Content Knowledge

- recognize the purpose of a search engine
- use appropriate keywords to locate information

Internet Skills

- open and close a web browser
- access a search engine
- use web browser tools to view previous web pages
- use keyword suggestions to locate resources on the Internet
- scan search results to discern the website that is the best match
- compare keywords to improve Internet search techniques
- analyze the results of different search engines
- filter results using search engine tools

Applied Technology

• efficiently locate resources on the Internet using search strategies

Assignment 6: Use Keywords to Find Information Fast



A search engine is a lot like an Internet librarian. Just as a librarian can find books about different things - a search engine finds websites.

There are many search engines such as Google, Bing, or Yahoo.

Keywords are used to search for information on the Internet. A keyword is a word or phrase that tells the search engine what to find.

The search engine uses the keyword to show a list of websites. The list is called the search results.

Follow the instructions to use keywords and find online games that are fun for kids to play.

Open the Google Search Engine

- 1. Search engines help you to find what you need. Use Google to find online games for kids.
 - ▶ Open the Chrome web browser.
 - ▶ Type www.google.com in the address box. Press enter.

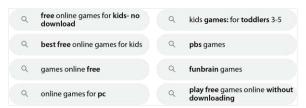


Use Keyword Suggestions

- 2. When you type in a keyword, Google suggests a list of other words you can use. Try it!
 - In the search box, type online games.
 - Click online games for kids from the list.



▶ Look at the bottom of the page for even more keywords. Click on one of the keyword phrases that you like to fine-tune your search.



Scan the Search Results for Keywords

3. When you use a search engine, it shows a list of websites that match your keyword. Each result gives you lots of information to help you decide if the website has what you want.

Which one will have the best online games for kids to play?

Do not just click on the first result! Scan each search result for keywords that will give you clues about the website.

	Read the v	veb page ille.
Study the address.	PBS KIDS	
• Look for names you know.	Games Play games with your PBS KIDS favorites like Curious George, Wild Kratts, Daniel Tiger and	Look for words that
 Look for words related to what you want. 	Peg + Cat! Engineering Games • Nature Games • Popular Games • Adventure Games	catch your interest in the description.
Check the	e list of popular pages from the website.	

- 4. ▶ Click a link that you think will have fun games for kids to play. Browse the website.
 - Click Back ← to return to the search results.

Which search result did you click?			
Did it have games for kids to play?	□ yes	□ no	

Try Different Keywords

5. When you search, you can use different keywords that mean the same thing. You must find the "right" search term to find fun places for kids on the World Wide Web.

Use Google to compare search words. Circle the keyword that is the best.



The number of results will show up at the top of the page.

Keyword	Number of Results	Are the results what you want?		
online games for children		□ yes	□ no	
online games for kids		□ yes	□ no	
best online games for kids		□ yes	□ no	
best free online games for kids		□ yes	□ no	

Close the Web Browser





In this session, students become web designers. To prepare for the task, they view an example website that has hyperlinks to interesting places on the World Wide Web for kids. Students examine the characteristics and rate the ease of navigation, appearance, quality, and safety. Next, they use the Internet to gather resources for their own website. The content of each page is planned by using the Website Organizer.

Assignment 10: Study an Example Website

Assignment 11: Brainstorm Topic Ideas

Assignment 12: Complete the Website Organizer

Session 3 Review: Consider Your Digital Reputation

Session 3 Extension Activity: Bookmark Websites



Assignment 10: Study an Example Website

You are now a web designer. A web designer is someone that builds websites.

You are going to make a website that has links to fun places on the WWW that are safe for kids to visit. To help you get started, view the website:

https://sites.google.com/view/technosite-funlinks/home

Look at it closely to answer the questions.



Fun Links Sample

Study the Fun Links for Kids Website

1. The Home page has a main title. What is it?

Fun Links for Kids

2. Read the description below the main title. What is this website about?

Cool places for kids to visit on the internet.

- 3. The website has two topics. What are they?
 - Dinosaurs
 - Snowboarding
- 4. For each topic, there are websites to visit. How many websites are listed for each topic?

2

- 5. What do you like about the website?
- 6. What would you like to change on the website to make it better?

Rate the Fun Links for Kids Website

7. Explore the Fun Links for Kids website by clicking on the hyperlinks. Rate the navigation, appearance, content, and safety.

Write the reasons for your scores in the Comment box.



Navigation	 It is easy to move around the website. All the links work. The website has links to other related pages on the Internet.
Appearance	 The website attracts attention. There is a good balance of pictures and information. The hyperlinks are easy to see.
Content	The website has interesting information to read.The website has words that are easy for kids to read.
Safety	 The website does not ask for personal information. The website has content that is suitable for kids.

Comment

(m)	Navigation	/5	
	Appearance	/5	
	Content	/5	
	Safety	/5	

8. Does the website get the Kid Stamp of Approval. Why or why not?



Close the Web Browser





In this session, students start to make their website using Google Sites. They begin by constructing a Home Page that includes a banner, title, and description. They use Layouts to add blocks of information about the topics.

Assignment 13: Create a Banner for the Home Page

Assignment 14: Add Topics Using Layouts

Assignment 15: Preview the Home Page

Session 4 Review: Web Designer Terms

Session 4 Skill Review: Promote Your Web Design Skills

Session 4 Extension Activity: Add a Logo to the Header



Assignment 13: Create a Banner for the Home Page

In this assignment, you begin to create the Home page for your website. It is the page that visitors will see first. Make a banner that tells people about the site.

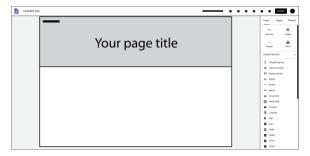


Example of header with banner image and website title.

Open Google Sites

- 1. ▶ Open the Chrome web browser.

 - D Click New. (+ №)



Add Document Name and Page Title

2. > Type Fun Links into the site document name box.



Select the text Your page title and type Fun Links for Kids.



Apply a Theme to Have a Consistent Design

- 3. Click Themes in the side pane. Pick an option from the list.
 - ▶ Select a color scheme and a font style for the text.

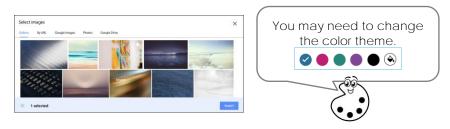


Change the Banner Image

- 4. ▶ Hover over the banner.
 - Click Image. ☐ From the list pick Select.



> From the Gallery click on a banner that will attract viewer interest. Click Select.



Size the Banner

5. ▶ Hover over the banner.



Sign Out of Google Drive



Session 4 Extension Activity: Add a Logo to the Header

You can add a logo to the header of your website. It will appear in the navigation bar, next to the site name. A logo is a graphic or symbol used to identify a brand or company.

Search the Internet to locate a picture to use as a logo. Find an image to highlight the website topic of fun places for kids on the WWW. Or the image can represent your web design company.

Copyright and Images on the Internet

It is important to know that you cannot just take any image you want from the Internet. Some pictures are *copyright* protected. This means that the creator of the image decides who has the *right* to use a *copy* and how they can use it. If you use a picture without permission, it is stealing.

Copyrighted pictures often have a © symbol on the image with the date or name of the owner. This is a way of identifying who owns the picture. Be mindful of copyright laws when choosing a logo image.

Find an Image

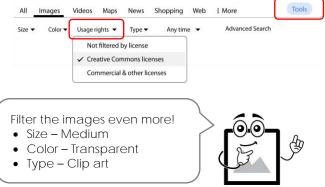
- 1. Open a web browser. Go to www.google.com.
- 2. Enter a keyword to search for logo. Press ENTER.

Keyword Suggestions:kidschildreninternetworld wide web

- web design
- fun



- 3. Click the *Images* link to filter the results to just pictures.
- 4. Click Tools. Click Usage rights and choose Creative Commons licenses.



Save the Image as Logo

- 5. Click on an image to enlarge it.
- 6. Right click on the image and choose Save image as... Choose a place to save the image.
- 7. Type logo into the file name box. Click Save.



Add the Logo to Your Website

- 8. Open your Fun Links document in Google Sites.
- 9. Hover over the top of the page header. Click Add logo. Add logo



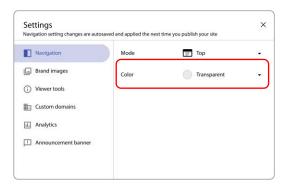
- 10. In the Settings box, click Brand images. In the Logo section, click Upload.
- 11. Select the logo file and click Open.

If your logo does not upload, then it is too large. Save a different image. You can also use a photo editing app or online image compression tool to reduce the size.



Edit the Navigation Bar

12. Click Navigation.Change Color to pick a background color for the navigation bar. Close Settings. X



Preview the Website

13. Preview To the website to view the logo on different device types. When done, close the preview.



- 14. To make changes, hover over the top of the logo. Click Edit logo. Editlogo
- 15. Sign out of Google Drive.



In this session, students continue to build their website. They follow instructions to insert several web pages. Each one is about a specific topic and will contain hyperlinks to fun places for kids on the WWW. Content on the Home page is joined to each web page to make it easy for visitors to navigate.

Assignment 16: Construct the Web Page for Topic One

Assignment 17: Construct the Web Page for Topic Two

Assignment 18: Connect the Home Page

Session 5 Review: Google Sites Tools and Terms

Session 5 Skill Review: Design a Photo Gallery of Fun Facts

Session 5 Extension Activity: Insert an Image Carousel



Session 5 Review: Google Sites Tools and Terms

Select the correct tool to complete the task.

1.	Insert a	hyperlink
----	----------	-----------





c. II

2. Preview a website to view on different devices.





С. ____

3. Insert a new page.



b. **T**

C.

/3

Check if the statement is True or False.

4.	Layouts place text and images into blocks that look professional.	□ Irue	⊔False
5.	A picture cannot be a hyperlink.	□ True	□ False

6. A section background can have an image applied to it. ☐ True ☐ False

7. A banner is used to publish a website to the WWW. □ True □ False

8. A theme is used to create a consistent color and font scheme. □ True □ False

9. Videos can only be watched on YouTube. □ True □ False

10. Pages in a Google Sites document are connected using hyperlinks. □ True □ False

/7

TOTAL: /10

Session 5 Skill Review: Design a Photo Gallery of Fun Facts

Pick one of your topics. Create a photo gallery of fun facts.



Research Four Fun Facts

- 1. Use your Internet skills to find 4 facts kids will want to know about one of your topics:
 - •
 - •
 - •
 - •

Create a Photo Gallery Using a Layout

- 2. Open your website in Google Sites.
- 3. Click Pages and select the page where you would like to add a photo gallery.
- 4. Click Insert. Click the content block with 4 images.
- 5. In the Click to edit text box type fact one.
- 6. Insert an image that is about fact one.





- 1. Click Crop. 4
- 2. Move the slider.
- 3. Drag the image inside the frame.
- 4. When done, click the checkmark.
- 7. Apply your skills to complete the photo gallery of fun facts. For example:



- 8. Preview **I** the web page.
- 9. Sign out of Google Drive.





In this session, the young web designers publish their websites to the World Wide Web. To prepare, students edit the content and appearance using a checklist as a guide. Next, they have a peer review of their website to test each hyperlink. Once the website is ready for viewers, they publish the website and share the link with classmates.

Assignment 19: Edit the Website

Assignment 20: Collaborate with a Fellow Web Designer

Assignment 21: Contribute to the WWW

Assignment 22: Gain the Kid Stamp of Approval

Session 6 Review: I Am a Web Designer

Session 6 Extension Activity: Add ALT Tags



Session 6 Review: I Am a Web Designer



You are a web designer! Answer questions about your website.

1.	Think about your website. Which link is your favorite? Why do you think kids will like it?
2.	What did you enjoy the most about building your own website?
3.	If you had more time, what would you like to add to your website?
4.	You are a web designer. How do you feel about contributing your own work to the World
т.	Wide Web?
5.	What advice would you give a new web designer that had never build a website before?





Refer to the appendices for additional resources:

Appendix A: Assessment Tools

Appendix B: Glossary

Appendix C: Contact Information



Website Marking Sheet

		Excellent Work! 4	Doing Great! 3	Keep Trying! 2	Needs Improvement 1
(m)	Navigation All hyperlinks work. The websites are about the topic.				
	Appearance: The website looks professional. All banners have a suitable title and image. There is a good balance of pictures and information.				
	Content: The websites listed for each topic are fun for children. The descriptions are easy to read. They describe what visitors can see, do, or learn. The video and images are things that children like.				
	Safety: The website is ideal for children. The collection of websites for each topic are safe for a younger audience.				
-\	Creativity: The website design is original. The website includes extra elements such as links, image carousel, or photo gallery of facts.				
				TOTAL	/20
Commer	nts:				



This course includes a sample of a completed project.

Teachers can use this resource for demonstration purposes or as a source of inspiration.

TechnoSite Sample Files

Click the links below to view sample files. Gain an understanding of what you can do with Google Sites.



Fun Links 1

Fun links for kids. Topics are Sharks and Soccer.

https://sites.google.com/view/funlinks/home



Fun Links 2

Fun links for kids. Topics are Ancient Egypt and Ancient Greece.

https://sites.google.com/view/funlinks2/home



Fun Links 3

Fun links for kids. Topics are Geocaching and Photography.

https://sites.google.com/view/funlinks3/home



Skill Review 4 - Web Designer

This is a sample of the skill review for Session 4.

https://sites.google.com/view/designskills/home