



Internet...

Ask a Tech Teacher™

Search and Research

In Your Classroom

Internet Search and Research

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Internet Search and Research

Vocabulary	Problem solving	Common Core
<ul style="list-style-type: none"> Address bar Copyright Credentials Diagram Digital Digital citizen Domain Extension Google (a verb) Hits Keywords Limiters Netiquette Plagiarism Refine search Toggle 	<ul style="list-style-type: none"> How do I add keywords (use + or – to add/remove keywords) How do I search internet (type into search or address bar) Can't find copyright (try bottom of website) I don't know how to rephrase a website (then don't use it) Too many hits (Use “”, +, -) I know my theory is true, but I can't find evidence I only want part of webpage (highlight, right-click, print) My search isn't working (check word order) All hits are .com (add .org as limiter) 	<p>CCSS.ELA-Literacy.CCRA.W.6-9 CCSS.ELA-Literacy.W.3.6-8 CCSS.ELA-Literacy.W.4.6-9 CCSS.ELA-Literacy.W.5.6,8 CCSS.ELA-Literacy.W.6.6,8 CCSS.ELA-Literacy.L.3.6 CCSS.ELA-Literacy.L.4.6 CCSS.ELA-Literacy.L.5.6 CCSS.ELA-Literacy.L.6.6-9 CCSS.ELA-Literacy.RI.3.5</p>
Time 90 minutes	NETS-S Standards 2b, 6a 3b, 3c	Grade 3-6

Essential Question

How do I gather relevant information from digital sources, use search terms effectively, assess credibility of source, and quote others—while avoiding plagiarism?

Overview

Summary

Review and practice essential skills for internet research, including how to use it safely, how to determine credibility of information, and how to search strategically and capably.

Big Ideas

Gather relevant information from digital resources, assess the credibility and accuracy of each source, and integrate information while avoiding plagiarism.

Materials

Internet, links to internet sites, website evaluation sheets, student Evernote accounts (if available)

Teacher Preparation

- Test all websites to be sure links are still active from the last time you used them.
- If you've taught this lesson before and have resources collected, do a quick Google search to see if anything new has arrived you should know about and can share with students.
- If you are using Common Sense Digital Passport, have class log-ins available.
- Consider co-teaching with subject-specific teacher.
- Something happen you weren't prepared for? No worries. Common Core is about critical thinking and problem solving. Show students how you fix the emergency without a meltdown.

Steps

Required skills: facility with internet

Before beginning, put backchannel device onto Smartscreen ([Today's Meet](#), [Socrative](#), [Padlet](#), class Twitter account, GAFE form) to track student comments throughout class. Show students how to access it if necessary.

Discuss essential question:

How do I gather relevant information from digital sources, use search terms effectively, assess credibility of source, and quote others—while avoiding plagiarism?

What do students know about this question from prior conversations, class inquiry, and personal experience? Break it into pieces and discuss:

- *How can you use the internet to answer a question if you don't know a site's reliable?*
- *How can you explain author's reasons and evidence if you aren't convinced reasons and evidence are accurate?*
- *How can you write knowledgeably about subjects using online sites if you don't know sites are knowledgeable?*

Let's back up. Why do we research? Encourage students to move beyond broad responses such as 'do classwork' or 'find something I don't know'. Overarching reasons include:

- *To build knowledge*
- *To present knowledge*

In this lesson, we'll cover:

- *How to use the internet safely*
- *How to differentiate relevant from irrelevant*
- *How to research strategically and capably*

Best Practices for Research

- *Use keywords and limiters*
- *Use extensions to select reliable websites*
- *Evaluate author credentials before using as a source*
- *Know something about topic being researched*
- *Spelling and word order matter*
- *Use Alt+F4 to search webpage for a specific word/phrase*
- *Avoid sites with too many ads*

Pages deleted from Lesson Plan for Preview

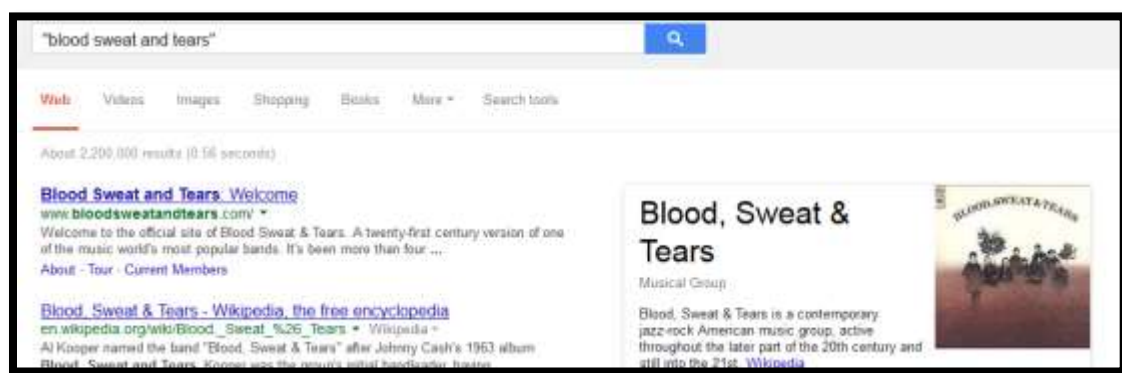
Internet Research

Common Core requires ***the ability to compare, contrast, and synthesize information from multiple sources and share evidence used in analysis.*** Review internet search/research tips:

- Add/subtract keywords using +, -, “ ”, and limiting words (to refine searches)
- Know topic well enough to evaluate credibility of information being read
- Look for reliable extensions--*.edu* and *.gov* are considered most reliable where *.com* and *.net* less so

Using a topic being discussed in class (a speech by Winston Churchill), do a search, apply keywords and limiters. Have students follow along on Smartscreen:

Figure 1—Sample student search



You didn't get the results you wanted. Discuss what went wrong:

- You used “ “. That was good.
- You knew that the source wasn't a musical group. That was good. Always enter a search with enough knowledge to make informed judgments on the hits.
- You forgot to add 'toil'.
- You mixed up the order of the words—order counts.
- You got a rock group—how might you eliminate musicians with that name?
- You got 2.2 million hits—how might you refine that?

Fix those errors and here's what you get:

Pages deleted from Lesson Plan for Preview

Assessment

Pick what works for your grade level

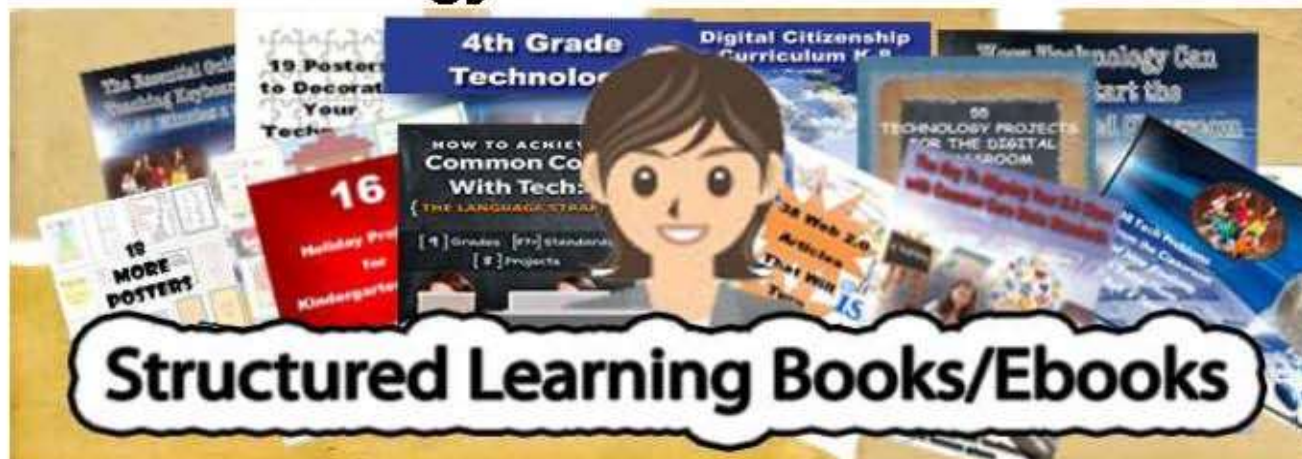
- _____ Can students transfer learning to life?
- _____ Did student join class conversations? Work well in a group?
- _____ Did student safely and effectively use the internet (where required)?
- _____ Did student use academic and domain-specific language, as well as correct language conventions, when speaking to class, classmates and you?
- _____ Did student understand the juxtaposition of 'technology' and 'education'?
- _____ Did student use backchannel device when necessary?
- _____ Did student use correct keyboarding while typing?
- _____ Did student use available digital note-taking tools?
- _____ Did student transfer knowledge from other lessons?
- _____ Did student try to solve problems (tech and otherwise) independently before requesting assistance from classmates and/or you?
- _____ Is student engaged, making a best effort to accomplish lesson goals?
- _____ Did student complete research project? Using a wide variety of sources?
- _____ Did student find most reliable sources for her/his needs?
- _____ Were student notes shared with classmates as needed?
- _____ Was student a risk-taker, curious about new technology (i.e., backchannel devices, note-taking tools)?
- _____ Did student understand that digital tools used were alternatives to paper-and-pencil used other times?
- _____ While investigating, did student enjoy the experience?

Other

Other Singles from Structured Learning

- 15 Web Tools in 15 Days
- Blogging
- Brainstorming
- Bridge Building
- Debate
- Digital Book Reports
- Digital Note-taking
- Digital Quick Stories
- Digital Quick Writes
- Digital Timelines
- Gamification
- Genius Hour
- Google Apps
- Internet Search and Research
- Khan Academy
- Service Learning
- Write an Ebook
- Write with Twitter

SL Technology Books for Your Classroom



Structured Learning Books/Ebooks

Which book	Price (print/digital/ Combo)	How Many
<i>K-8th Tech Textbook (each)</i>	<i>\$29.99-\$32.99/\$23.99-\$26.99/\$48.58-\$53.99+p&h</i>	
<i>K-6 Combo (all 7 textbooks)</i>	<i>\$190.74/\$153.84/\$344.57 + p&h</i>	
<i>K-8 Combo (all 7 textbooks)</i>	<i>\$246.52/\$200.62/\$447.14+ p&h</i>	
<i>35 More Projects for K-6</i>	<i>\$31.99/\$25.99/\$2.18 + p&h</i>	
<i>55 Tech Projects—Vol I, II, Combo</i>	<i>\$32.99 /\$59.98—digital only (free shipping)</i>	
<i>K-8 Keyboard Curriculum</i>	<i>\$29.95/\$25.95/\$0.31 + p&h</i>	
<i>K-8 Digital Citizenship Curriculum</i>	<i>\$29.95/\$25.99/\$0.38 + p&h</i>	
<i>Common Core—Math, Lang., Read.</i>	<i>\$26.99 ea/\$2.87 for 3—digi only (free ship'g)</i>	
<i>K-5 Common Core Projects</i>	<i>\$29.95/\$23.99/\$48.55 + p&h</i>	
<i>16 Holiday Projects</i>	<i>\$14.99 (digital only) + p&h</i>	
<i>19 Posters for the Tech Lab</i>	<i>\$6.99 (digital only)</i>	
<i>18 More Posters for the Tech Lab</i>	<i>\$12.99 (digital only)</i>	
<i>98 Tech Tips From Classroom</i>	<i>\$9.99 (digital only) + p&h</i>	
<i>760+ Tech Ed Websites</i>	<i>\$14.99 (digital only) + p&h</i>	
<i>Tech Ed Scope and Sequences</i>	<i>\$14.99 (digital only) + p&h</i>	
<i>New Teacher Survival Kit (K-5)</i>	<i>\$338.21/\$287.85/\$567.08+p&h</i>	
<i>New Teacher Survival Kit (K-6)</i>	<i>\$370.20/\$314.84/\$620.16 + p&h</i>	
<i>New Teacher Survival Kit (6-8)</i>	<i>\$280.83/\$261.83/\$415.74 + p&h</i>	
<i>Bundles of lesson plans</i>	<i>\$7.99 and up—digital only (free shipping)</i>	
<i>Mentoring (1 hr. at a time)</i>	<i>\$50/hr</i>	
<i>Year-long tech curriculum help</i>	<i>\$100 per year (online)</i>	
<i>Consulting/seminars/webinars</i>	<i>Call or email for prices</i>	
	Total	

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