

A woman with blonde hair is shown in profile, looking down at a tablet computer. The background is a solid light blue color. The text is overlaid on a white rectangular area.

**169 REAL-WORLD
WAYS TO PUT TECH
INTO YOUR CLASS**
NOW

READY, SET, GOOD TO GO

BY ASK A TECH TEACHER

**169 REAL-WORLD WAYS TO PUT
TECH INTO YOUR CLASS
*NOW***

Ready, Set, Good-to-go

By Ask a Tech Teacher

Visit the companion website at <http://askatechteacher.com> for more resources to teach technology

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Introduction

Several years ago, in an effort to buttress technology prowess in my classes and with colleagues, I started tracking how often I got the same tech questions from students, teachers, and even parents. Turns out, **70% of the time, it was the same finite group of problems.**

That was a relief because—as you know if you’re a grade-level teacher or in charge of the lab--using technology in the classroom can be frightening. What if there’s a problem you don’t know how to solve, or a question you can’t answer? What if the computers break? What if they all break at once? The truth that all of us who use tech in class know is: **You only have to know the big stuff.** The rest sorts itself out based on your existing knowledge base.



That’s what’s in **169 Real-world Ways to put Tech into Your Class -- NOW**. In these 169 tech-centric situations, you get an overview of the tech topics most important to your teaching as well as practical strategies to address most classroom tech situations, how to scaffold these to learning, and where they provide the subtext to so much of today’s fused education. For example: Often, the solution to a problem is either



... reboot, restart ...

... close, reopen ...

OR

Google it!

When you face a problem not included in these 169 tips, these three quick fixes are a great place to start.

If you’re a veteran teacher integrating technology into units of inquiry and/or Common Core State Standards, these tips will be invaluable. You are usually on your own in the classroom, without tech experts to assist. Keep this ebook handy and you’ll be able to fix many of the problems that can’t wait for a solution.

How to use this book

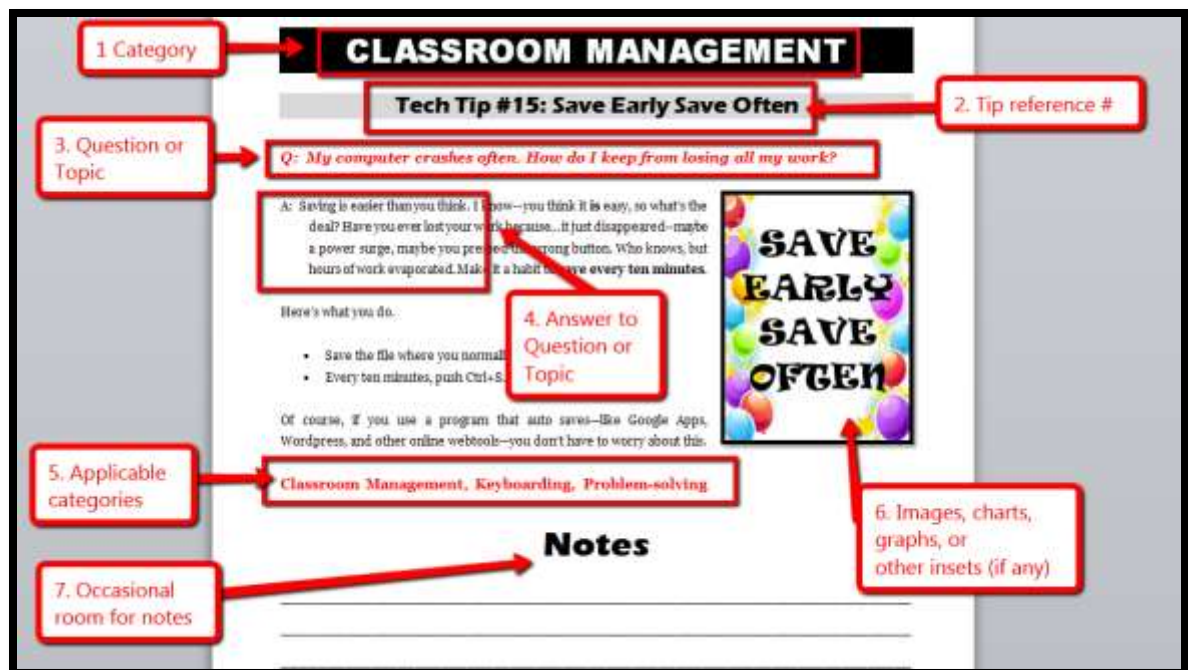
169 Real-world Ways To Put Tech into Your Class -- NOW includes tips, hints, quick discussions, posters, and infographics--all divided into 29 categories including:

- | | |
|-------------------------------------|--------------------------|
| ○ <i>assessment</i> | ○ <i>pedagogy</i> |
| ○ <i>Chromebooks/iPads/Macs/PCs</i> | ○ <i>problem-solving</i> |
| ○ <i>classroom management</i> | ○ <i>reading</i> |
| ○ <i>differentiation</i> | ○ <i>search/research</i> |
| ○ <i>images</i> | ○ <i>security</i> |
| ○ <i>maintenance</i> | ○ <i>social media</i> |
| ○ <i>parents</i> | ○ <i>writing</i> |

Pick the category that addresses the immediate needs of your class or grade-level team. Invest **sixty minutes** to **review the tips, try the samples, and dig deeper** with the extra resources (if needed). By the end, you'll feel conversant on important topics and prepared to move forward.

Each topic is no more than one page (with about two exceptions), some much less, which means you can quickly skim the information to prepare for a meeting or class. In many cases, more information is provided via weblink.

Here's a breakdown on how to use each tip:



1. **Tip category**—one of 29 that cover most situations you'll face in class. Each category includes between three and forty-two tips.
2. **Tip reference number**—tips are curated into the most prominent category first, and then within secondary categories at the bottom of the tip (#5).
3. **Question/topic**—theme of the tip. It will be a question or a discussion topic.
4. **Answer**—a pithy answer with all relevant information.
5. **Applicable categories**—additional categories where this tip is relevant.
6. **Images, charts, graphs, or other insets**—visual detail to clarify the topic.
7. **Notes**—sporadically included throughout the ebook so you can jot down your ideas and collect thoughts relevant to the topic.
8. **Also topical** (not shown)—additional tips related to the topic, but included under different categories.

Here's how to use this resource:

- *Review all 169 tips. No studying required—just read and highlight those relevant to your classes. Click through to any additional detail provided or save that for later. OR*
- *Pick the categories that pertain to a project you're doing and focus on the hints. OR*
- *Select by the Table of Contents title. THEN*
- *Use your PDF annotation tool to add thoughts, comments, and hints to the **Notes** sections.*
- *Zoom in on the images if necessary. ADDITIONALLY*
- *Scattered throughout are 26 posters and infographics, addressing prickly tech problems.*
- *If you need more help, contact askatechteacher@gmail.com with questions.*

About the Authors



[Ask a Tech Teacher](#) is a popular, well-regarded resource blog run by a group of technology teachers. It offers oodles of free lesson plans, advice, pedagogical conversation, website reviews and more. Its newsletters and website articles are read by thousands every day, including teachers, homeschoolers, and anyone serious about finding the best way to maneuver the minefields of technology in education.



[Jacqui Murray](#) has taught K-18 technology for 15 years. She is editor/author of over a hundred tech ed resources. She is an adjunct professor in tech ed, CSG Master Teacher, a Vine reviewer, CAEP reviewer, and a CSTA presentation reviewer. Her technology articles have appeared in hundreds of ezines and blogs. You can find her resources at [Structured Learning](#).

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ASSESSMENTS

Tech Tip #146: 18 Ideas for Warm-ups, Exit Tickets

Here are eighteen ideas for class warm-up and exit tickets:

1. Use a virtual wall like Padlet to post the Big Idea of the day. This is shared with students. See inset.
2. Read a teacher blog post and respond.
3. Answer summative questions curated via a flash card deck (like [Quizlet](#)).
4. Post to a virtual wall (like [Padlet](#)) about something student didn't understand. Answer a classmate's question.
5. Tweet out the 140-character Big Idea of the day, using a unique #hashtag.
6. Add a blog post with Five Fast Facts about today's material.
7. Add a 3-2-1 blog post: 3 student questions; 2 things they learned; 1 thing they want to know more about.
8. Draw a picture summarizing today's lesson using a digital drawing program (like [Sumopaint](#)).
9. Use a whiteboard program or a mindmapper (like [Popplet](#)) to brainstorm the lesson with a partner.
10. Add the Big Idea student took away from the lesson to a Google Spreadsheet, a Google Form, or a virtual wall (like Padlet).
11. Take a poll (using Google Forms), selecting what student saw as the most important point in the lesson.
12. Add three pieces of prior knowledge required to understand the lesson to a collaborative mindmap.
13. Answer an open-ended question posted by the teacher to a backchannel device (like Padlet—see inset).
14. Create a [Yoki](#) to ask and answer a question about the day's lesson. Upload it to the class website.
15. Take a screenshot of student daily notes; upload to [Fotobabble](#) and have the image discuss the notes.
16. Use an infographic tool to create a timeline or storyline based on the day's lesson.
17. Review project with a neighbor, based on a rubric.
18. Verify that neighbor saved their document correctly, to the student digital portfolio or class server.



Here's a [webinar on warm-ups](#) and another on [exit tickets](#).

Assessment, Classroom Management, Writing, Differentiation

Tech Tip #151: 8 Popular Year-long Assessments

1. **Keyboarding speed and accuracy** (or pre-keyboarding for youngers). Teach students the correct way to keyboard (posture, habits, hand position—that sort; there are general guidelines in the inset and detailed information in this [keyboarding curriculum](#)). Share this with other grade-level teachers, parents, even the library media specialist. Make it clear to students that wherever they use a computer, use good habits. Assess them anecdotally regularly to track progress.
2. **Tech use**—evaluate student self-directed use of the technology they have learned in class projects. Anecdotally verify that they are applying their learning.
3. **Problem solving**—expect students to solve their own tech problems, or at least attempt it. This can start with you demonstrating the solution and then relying on students to remember and use what they’ve seen.
4. **Self-directed use of vocabulary tools**—expect students to use domain-specific tech terms as they use technology. If they don’t understand a term, expect them to use readily-available digital vocabulary tools (right-click tools, a resident dictionary program, and/or a dictionary browser app or extension like the Google Dictionary Chrome extension) during literacy classes to decode unknown words.
5. **Effort**—assess student tech knowledge based on *process not product*. If students performed to the best of their ability, that’s applauded.
6. **Teaching others**—expect students to share their knowledge with classmates. [‘Ask three then me’](#) is a popular effective approach to tech learning in the classroom.
7. **Quizzes/tests** taken in tech class—occasionally, quiz students on their knowledge through rubrics or summative assessments.
8. **Anecdotal observation**—observe student use of technology in class and anecdotally assess their ability to solve problems, complete work, and help others.



Assessment, Classroom Management

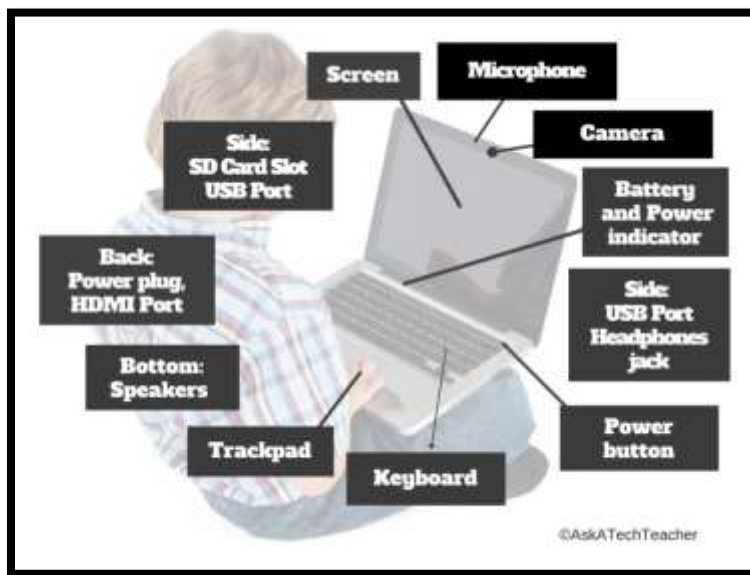
CHROMEBOOKS

Tech Tip #94: 8 Tips for Chromebooks in Class

1. Be clear what the Chromebook can and can't do. Then you won't expect the impossible.
2. It is sturdy--reinforced hinges, water-proof keyboard (waterproof everything), able to survive a drop from desk-height--but still teach students to handle it with care.
3. Chromebooks are platform agnostic. It doesn't matter if students create documents in Macs or PC. Once they load it to their cloud storage, they can view it and/or share it.
4. Taking screenshots is easy. Review this early and often with students.
5. Get students used to the most fundamental [Chromebook shortkeys](#). They're much faster. [Here's a big list](#) of ones they'll find useful.
6. The Chromebook operating system (Chrome OS) is Linux-based. I won't bore you with what that means. Just be clear that you're not working with an OS X or Windows operating system. That will inform a lot of the stuff you do along the way.
7. Chromebooks will operate more efficiently on the Chrome browser than IE or Firefox.
8. Who you buy your Chromebook from will affect how much Cloud storage each user gets.

For more on Chromebooks in your class, [click here](#).

Chromebooks, Classroom Management



Images

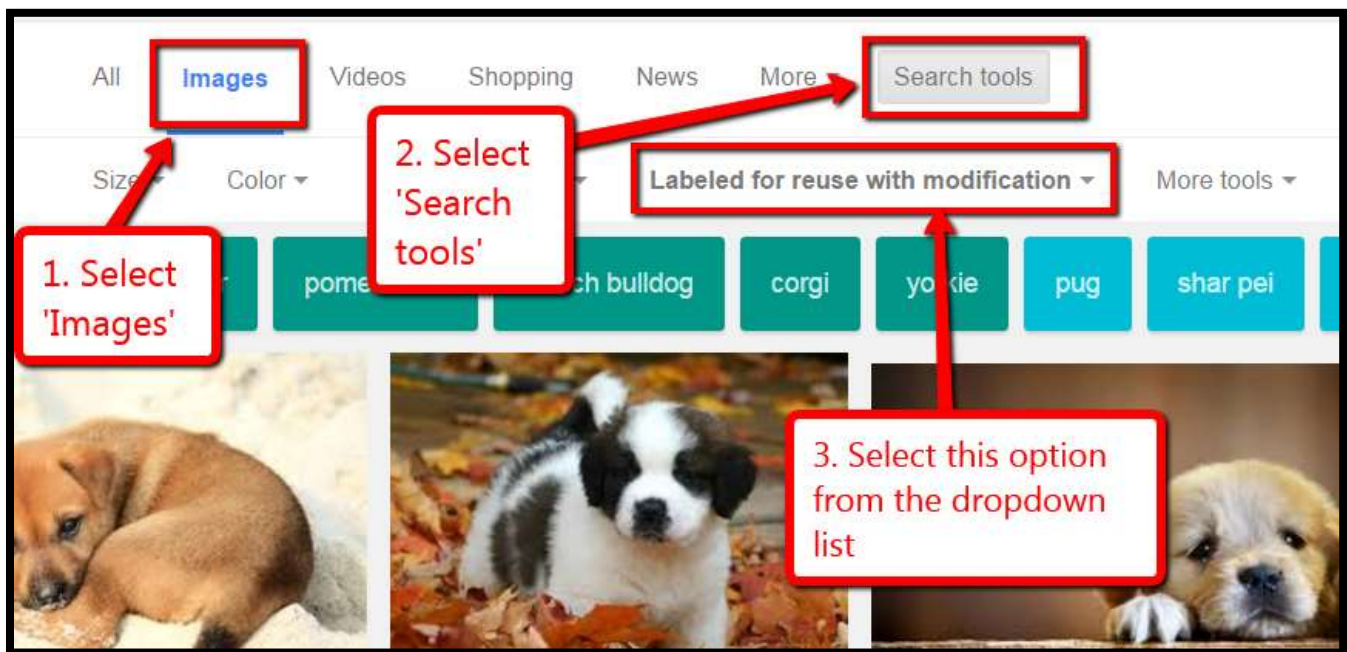
Tech Tip #51: Sort Images by Public Domain

Q: I know 'fair use' allows students to use most online images for educational purposes, but I want them to know how to find public domain pictures for everyday, non-school use. What's the easiest way to do that?

A: Google Docs makes it easy by attaching the citation to any picture added through the program. [Photos for Class](#) does this also (see Tech Tip #52).

But that only works if the student is working through those two programs. To find only legal images available for free for all types of projects, you have to edit the Google search settings to reflect only images that can be used and re-edited:

- search for image through [Images.Google.com](https://www.google.com/images) (for example: *puppies*)
- when the thumbnails come up, go to *Search tools*
- using the radial button, select *Labeled for reuse*



Images, Internet, Security, Search/Research, MS Office, Google Apps

Internet

Tech Tip #37: Basics of Internet Safety

Here are two posters to share with students about the basics of Internet safety:



Here's a lesson plan on [Internet Search/Research](#).

Internet, Security

Tech Tip #42: How to Reset Your Homepage

Q: My homepage got hijacked! It no longer opens to what I set it for. How do I fix that?

A: Here's what you do:

- **Firefox:** Go to *Tools>Options*.
- **IE:** Go to the Tools icon (a gear-looking picture), *Internet>Options>General>Use Current*.
- **Chrome:** Go to *Settings>Appearance>Show Home Page*.

Now make sure your firewall is working. Run Spybot and Adaware and an anti-virus program. Something got through that shouldn't have and you don't want it to happen again—or have a worse outcome than your homepage changing.

Internet, Security

IPads

Tech Tip #76: 13 Tips for using an iPad

Here's a poster with thirteen basics tips to share with students new to iPads:



How to use an iPad



- • keep the iPad in a safe place
- • carry iPad with two hands
- • never run with the iPad
- • use iPad with clean hands
- • no food or drink around the iPad
- • always ask permission to use
- • never bang on the iPad
- • get permission to change settings
- • don't delete apps
- • don't change wallpaper
- • always use headphones
- • plug iPad in to recharge at end of day
- • never purchase anything online

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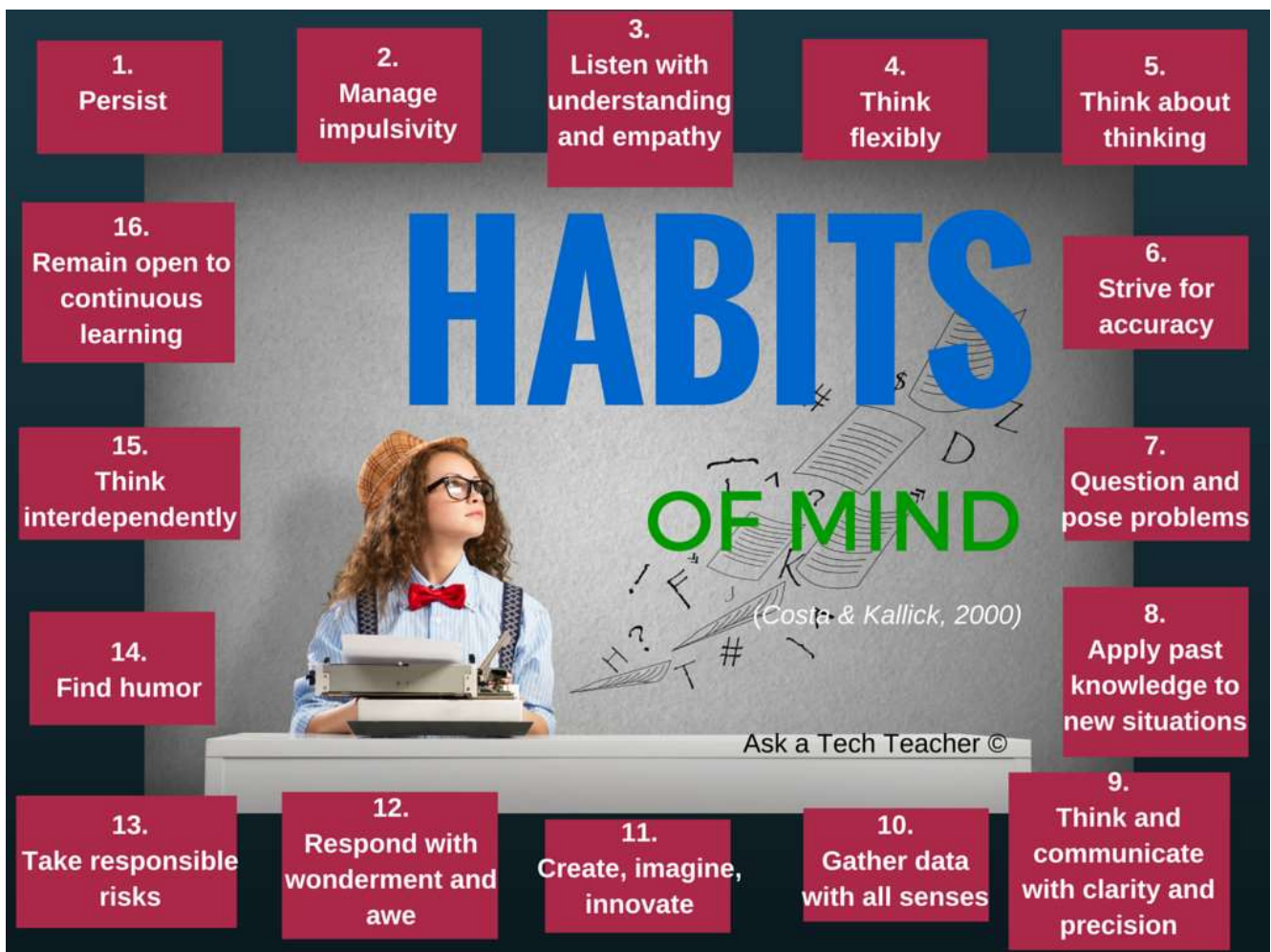
IPads, Classroom Management

Pedagogy

Tech Tip #6: 16 Habits of Mind

Q. What are the basic elements of Habits of Mind that I should focus on?

A. 'Habits of Mind' are learning skills that address the most granular problem-solving and critical thinking abilities required to prepare a student for college or career. They concentrate on the practical strategies of 'analysis, evaluation, synthesis. Here's a poster with all sixteen:



For more on Habits of Mind, [click here](#).

Pedagogy

Printing

Tech Tip #8: Print a Selection off a Web Page

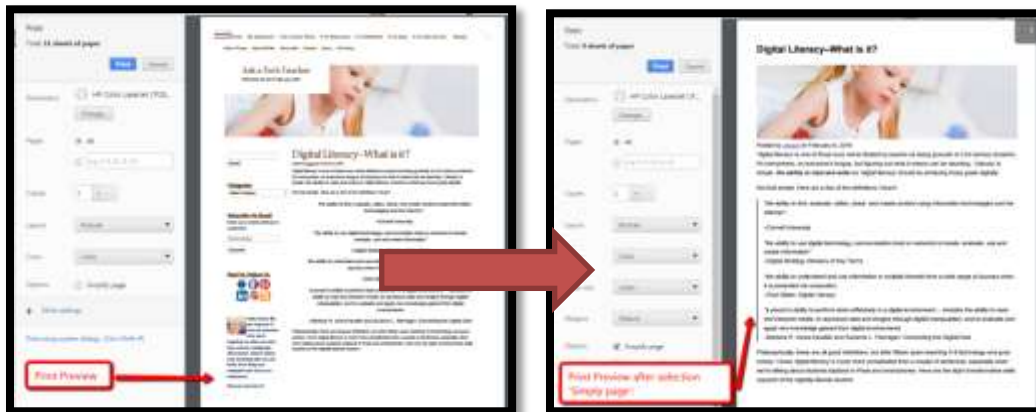
Q: I only want to print part of the webpage, not the entire thing. Other than using [Jing](#) (it's not on some of the computers I use at work or friends' houses), how do I quickly print just a selection?

A: Another reason for printing only part of a page is that you might want to save paper. To print a portion of a page:

- highlight the desired text
- press Ctrl+P
- in the Print dialog box: in **Print Range** (or similar), click **Selection**, then OK

Now, only the selected portion of the Web page will print.

You can also print only the text, leaving out the ads etc. Compare the first inset below to the second, printed through a browser extension called [Readability](#):



One final option: If you're using software (like MS Word), you can use a variety of screenshot programs to grab just a piece of your page. Check [Tech Tip #116](#) for more on this.

Printing, Internet, Keyboarding

Also topical: [#2](#), [61](#)

Problem-solving

Tech Tip #29: I Can't Find a File

Q: I saved my document, but I can't find it. What do I do?

A: There are five steps to search for a document you saved, but don't remember where (see poster below):



If none of these work, try this:

- Open the program you created it in, say MS Word.
- Select **File>Open**. MS Office programs—Word, Publisher, Excel, PowerPoint—and some other software show recently created documents in the task panel. Check to see if your document shows up there. If so, open it and re-save it in a spot you'll remember.
- Not there? Try this:
 - Click the **Start Button**. Type the file name in *Search*.
 - *Search* only looks in locations attached to your computer. For example, it won't find files on your flash drive if it isn't plugged in or an external folder such as Box.net.

Problem-solving, MS Office

Programs

Tech Tip #110: Compare-Contrast Digital Tools

Have students use these tables to compare-contrast digital tools available for their education:

| Element | Presentation | Word processing | Spread--sheets | DTP |
|---------------------|--|--|--|---|
| Purpose | <i>Share a presentation</i> | <i>Share words</i> | <i>Turn numbers into information</i> | <i>Share information using a variety of media</i> |
| Basics | <i>Graphics-based Design is important to content Layout communicates Few words, lots of images</i> | <i>Text-based Design is secondary to content Layout may detract from words Primarily words communicate</i> | <i>Number-based Focus on tables, graphs Little text; lots of statistics and data Almost no words</i> | <i>Mix of media—equal emphasis on text, images, layout, color</i> |
| Sentences | <i>Bulleted, phrases</i> | <i>Full sentences with proper conventions</i> | <i>None</i> | <i>Full sentences, bullets,</i> |
| Content | <i>Slides cover basics, to remind presenter what to say</i> | <i>Thorough discussion of a topic. Meant to be complete document</i> | <i>Statistics, data, charts, graphs</i> | <i>To draw an audience in;</i> |
| Use | <i>As a back-up to presentation</i> | <i>As complete resource</i> | <i>To support other presentation methods</i> | <i>Good way to group information for easy consumption</i> |
| Presentation | <i>Speaker presents with their back to the slideshow</i> | <i>Speaker reads from document</i> | <i>Speakers uses it in a presentation or 1:1</i> | <i>Speaker passes out as a handout or take-way</i> |
| What else | | | | |

| Element | Art | Audio | DTP | Music | Slide-show | Spread sheet | Video | Word processing |
|--------------|-----|-------|-----|-------|------------|--------------|-------|-----------------|
| Purpose | | | | | | | | |
| Basics | | | | | | | | |
| Sentences | | | | | | | | |
| Content | | | | | | | | |
| Use | | | | | | | | |
| Presentation | | | | | | | | |
| What else | | | | | | | | |

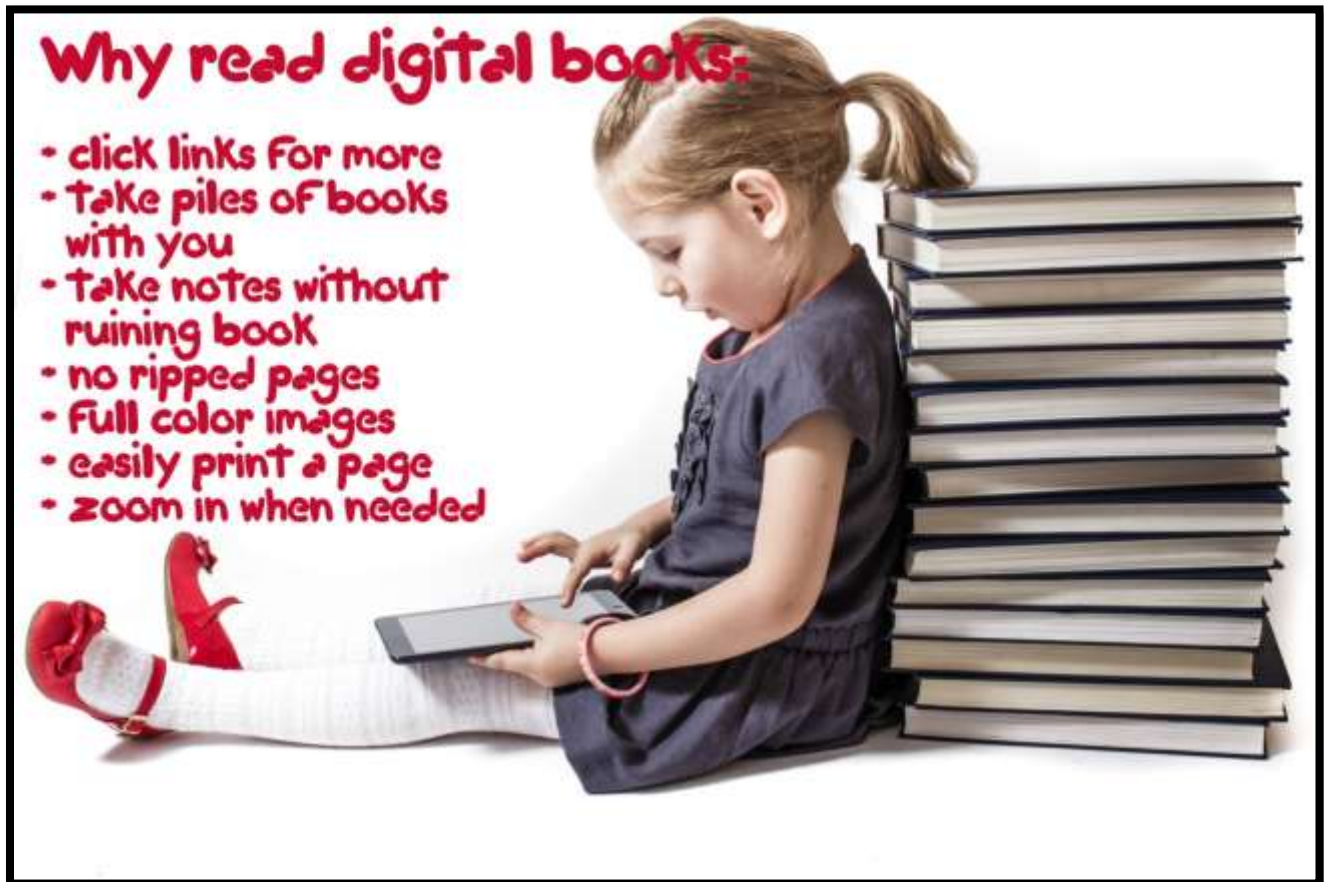
Set them up in your spreadsheet program and add only the labels. Show it on the class screen and have students suggest what data fills in the cells. If you have the [SL Tech Curriculum](#), you'll find multiple copies of these you can simply copy-paste.

Programs, Webtools, MSO, Google Apps, Problem-solving, Assessment, Pedagogy

Reading

Tech Tip #139: 9 Reasons to Use Digital Books

As you discuss reading and the technology tools that inspire students in this activity, here's a poster with nine reasons why students will love digital books:



They're light-weight, easy to transport, provide links for deeper learning, differentiate for student needs (like zoom to see better or a change of font), allow for the addition of notes that can be erased, and pages never rip. What more could you ask?

Reading, Classroom Management

Also topical: #[154](#)

Search/Research

Tech Tips #138: 7 Ways to Evaluate Websites

When students use the internet to research a topic, likely they get hundreds—or thousands—of possible resources. Beyond selecting based on key words and extensions (such as selecting websites that end in .edu and .gov), how can they make choices that will inform their learning rather than misguide it?

Here's a poster with seven tips on how to evaluate websites:

- *Is the author knowledgeable?*
- *Is the website publisher credible (one the student knows to be accurate)?*
- *Is content accurate (based on student knowledge)?*
- *Does the content include a depth of knowledge on the subject?*
- *Is the information included on the website up to date? The definition of 'up to date' will vary with the topic. History probably doesn't change much, but science might (such as Pluto is no longer a planet).*
- *Is the website unbiased? Are they sharing information so readers can draw their own conclusion or trying to get them to agree with an agenda?*
- *Is the website age-appropriate? Does it use words and concepts that fit the age group that will be using it?*



Search/Research, Internet

Teaching

Tech Tip #153: 5 Cures for Technophobia

1. **Just Use it**--Be that teacher in your school who always tries whatever new gimmick the Tech Geeks come up with. Do it in the privacy of your classroom, before kids enter or faculty drops by. Boot up the computer, test drive the Google Apps trick someone emailed to you. It doesn't matter if it takes you a half hour or half minute to figure out what all those terms mean, or if it doesn't work the first five times. It doesn't even matter if it never works--because next time it will. Or the next time. You get better at tech by doing, not by watching others. I promise you, it works.
2. **Train Yourself**--Spend ten minutes exploring the tool before using it with students. If you don't have time, try it with the students. Model Common Core and 21st Century learning skills for them, like critical thinking, close reading, and problem solving. Let them see that adults use the same skills students learn.
3. **Don't worry if you make a mistake**--Lots of experts do. They are searching for answers, being risk-takers, ignoring the fear of failure. Be that person, too. Try to find answers with the knowledge you have. You'll either succeed or find what doesn't work, and in that way inform yourself about the answer. Exactly as we teach kids.
4. **Use Keyboard shortcuts**--Put a list by the computer. It won't take students long to remember them because kids love a faster way to an end. They're quicker and less stressful than finding the button that does... *[fill in the blank]*. To push Ctrl+Z and have lost typing reappear (after accidentally deleting it) is a WOW. From that point, you've got them. Just keep sprinkling around the keyboard shortcuts.
5. **Revel in your geekiness**--Use your tech. Teach it to others. Listen to conversations about techie topics. Wear a flashdrive as jewelry. Straighten your shoulders and punch your chin up when someone calls you a geek. You are proud of it. Don't be surprised people treat you with awe, like your brain grew two sizes, like Sheldon should be your best friend or a Tardis your home. Just nod and say nothing. You are a geek. You're enigmatic. You're confident and sure of yourself. You answer questions that bamboozle everyone else (at least, you know where to look).



For more detail, [click here](#).

Teaching, Classroom Management, Pedagogy

Writing

Tech Tip #62: Fix Double-space between Paragraphs

Q: Space between paragraphs is the default, but I don't like that. What do I do?

A: I don't like that either. I'm sure as many people start a paragraph with a tab indent as a double space between paragraphs. To fix this, select the document you want to fix and then:

- In **Word**: Go to *Page Layout>Paragraph>Spacing*. Set 'before' and 'after' to 0—not 10.
- In **Google Docs**: Go to *Format>Line Spacing*. Set 'before' and 'after' to 0.

To make this the default, set the spacing up as you'd like it to be then click the 'Default' button at the bottom of the dialog box (see inset).

In **Google Docs**: Set up the page as you want it and then go to *Styles drop-down menu>Options>Save current*.

This is the same process you use to reset the default font (Tip #63).

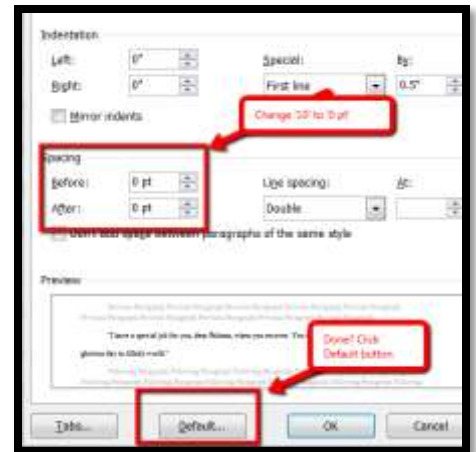
Use this tip so students can set up a template that meets the writing standards used in your school. Simply set all the requirements (such as double-spacing) and then save to student digital portfolio under the file name 'Writing Template' (or save it as a template if that's available). Whenever they write, open the template and then save-as under a new name.

Writing, Google Apps, MS Office, Classroom Management

Tech Tip #142: Encourage the use of audio notes

Every opportunity, encourage students to use the audio mike (instead of the keyboard) to record their ideas, thoughts, and notes. Why? It will suit some students perfectly and differentiate for needs you may not even be aware of. Of course, if everyone used audio notes, the class would get quite noisy.

Writing, Keyboarding, Differentiation, Classroom Management



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| Which book? | Price |
|---|---------------------------------------|
| <i>K-8 Tech Textbook (each grade level—print, digital, or both)</i> | <i>\$32.99/25.99//53.08 + p&h</i> |
| <i>K-8 Student tech workbooks (with video, teacher manual)</i> | <i>\$199 per grade level</i> |
| <i>35 More Projects for K-6 (aligned w curriculum—digital only)</i> | <i>\$31.99/25.99/52.18 + p&h</i> |
| <i>55 Tech Projects—Volume I, II, or both (digital only)</i> | <i>\$18.99/\$32.49 + p&h</i> |
| <i>K-8 Keyboard Curriculum (print, digital, or both)</i> | <i>\$25.99-\$64</i> |
| <i>K-8 Student keyboarding wkbks (with video, teacher manual)</i> | <i>\$199 per grade level</i> |
| <i>K-8 Digital Citizenship Curriculum</i> | <i>\$29.95/25.99/50.38 + p&h</i> |
| <i>K-8 Common Core Lessons</i> | <i>FREE-\$48.55 + p&h</i> |
| <i>Pedagogic Articles</i> | <i>\$6.99 (digital only)</i> |
| <i>K-8 Tech Scope and Sequences (Word doc)</i> | <i>\$9.99 each (digital only)</i> |
| <i>Posters for the Tech Lab</i> | <i>\$2.99 each (digital only)</i> |
| <i>16 Holiday Projects</i> | <i>\$4.99 (digital only)</i> |
| <i>169 Real-world Ways to put Tech into Your Class</i> | <i>\$15.99 (digital only)</i> |
| <i>Classes (certificate and college credit)</i> | <i>\$260-\$450</i> |
| <i>Project-based learning (lesson plans)</i> | <i>\$1.99 each on varied topics</i> |
| <i>New Teacher Survival Kit (K-5)</i> | <i>\$360 and up (+ p&h)</i> |
| <i>New Teacher Survival Kit (K-6)</i> | <i>\$380 and up (+ p&h)</i> |
| <i>New Teacher Survival Kit (6-8)</i> | <i>\$330 and up (+ p&h)</i> |
| <i>Homeschool Tech Survival Kit</i> | <i>Starts at \$99.00</i> |
| <i>Bundles of lesson plans</i> | <i>\$7.99 and up</i> |
| <i>Mentoring (1 hr. at a time)</i> | <i>\$50/hour and up</i> |
| <i>Year-long tech curriculum help (via wiki)</i> | <i>\$145</i> |
| <i>Consulting/seminars/webinars</i> | <i>Call or email for prices</i> |
| Total | |

Fill out this form (prices subject to change).

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