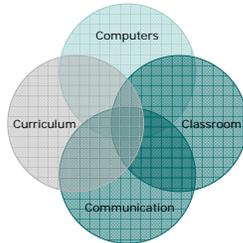


## 4 C's



## Computers Curriculum Communication and the Classroom

Presented by Kathy Schrock

## You will...

- identify and locate technology resources and evaluate them for accuracy and suitability
- continually evaluate and reflect on professional practice to make informed decisions regarding the use of technology in support of student learning
- identify and use technology resources that affirm diversity
- use technology to communicate and collaborate with peers, parents, and the larger community in order to nurture student learning

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## You will...

- Learn effective evaluation skills
- Understand the components of critical evaluation of Web information
- Identify online tools to support instruction
- Become familiar with online professional collaboration
- Create an online communication tool

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## Online support page...

<http://kathyschrock.net/4cs/>



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## Overview

- Critical evaluation skills
- Subject directory investigation
- Online search strategies
- Online tool use
- Creation of an online communication area

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## Critical Evaluation Skills

## 5 W's of Web Site Evaluation

---

**Who wrote the pages and are they an expert?**

**What does the author say is the purpose of the site?**

**When was the site created and last updated?**

**Where does the information come from?**

**Why is the information useful for my purpose?**

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## Who wrote the pages and are they an expert?

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- Who is providing the information?
- What information do they offer about themselves?
- How can you determine if others think the information is credible?
- How can you find out more about them?

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## What does the author say is the purpose of the site?

---

- Is the rationale for inclusion/exclusion included?
- Is there a statement of purpose?
- Are there obvious information gaps compared to other sources?

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## When was the site created and last updated?

---

- Is the date of creation included?
- Is the date of last update included?
- Does date make a difference for your information need?

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## Where does the information come from?

---

- Is a bibliography of sources used provided?
- Is a bibliography of related sources included?
- Are full citations given?

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## Why is the information useful for my purpose?

---

- Does the new information change what you know about the topic?
- Is the information pertinent to your stated needs?
- Can the information be verified?

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## Critical Evaluation Assignment

- Go to <http://kathyschrock.net/4cs/>
- Using the evaluation handout in your packet, critically evaluate
  - Feline Reactions
  - Dihydrogen Monoxide
  - Velcro Crop Under Challenge
- Be prepared to discuss the process

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## Experts Share Assignment

- Break into 6 groups
- Number your groups (1-6)
- Visit <http://kathyschrock.net/4cs/>
- Read the article for your group #
- Choose a reporter to summarize all group members' thoughts
- *Important Book Summarizer* presentation to the large group

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## Wrap up of evaluation

- Internalize the criteria
- Learn the things to watch out that may impact the credibility of the information

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## Subject Directory Investigation

How does a directory work?



## Facets of a subject directory

- Created by humans
- Provide a classification scheme
- Intended to be browsed
- May have a search tool to itself
- Smaller than search engine indices

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## Subject Directory Assignment

---

- Visit <http://kathyschrock.net/4cs/>
- Take a look at the educational subject directories listed
- Using your subject directory worksheet, compare and contrast the directories

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## Subject Directories: Wrap-Up

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- Subject-specific ones are useful
- Small number of relevant sites
- Browseable
- Start here when unsure of what might be available

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## Online Searching Strategies

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### Overview

---

- Problems with searching
- Three main types of search tools
- The top search engines
- What to do before you start
- Advanced search strategies
- The future of search
- The Invisible Web

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### The Problems

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- Too many hits for my query
- Can't find what I am looking for
- How do I formulate words to get what I want?
- Which search engine do I use?
- How do I avoid "bird walks"?

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### Three types of search tools

- Search engines
  - Google
  - AltaVista
- Meta-search engines
  - Vivisimo
- Directories
  - MSN
  - LookSmart

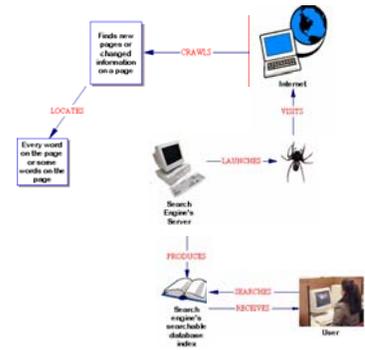
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## What is a search engine?

- Software (robots, spiders, or crawlers) that indexes and catalogs the Internet into a database of keywords
- Active 24 hours per day
- Systematic approach to indexing sites
- Creates a database that *you* search

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## How does a search engine work?



## What is a meta-search engine?

- Doesn't crawl the Web itself to build listings
- Allow searches to be sent to several search engines/directories all at once
- Results are blended together onto one page

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## Example of meta-search engine

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## What is a directory?

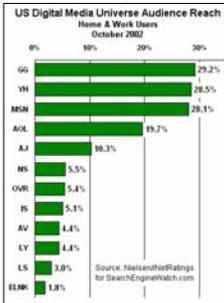
- Created by "expert" human beings
- Sites identified and classified
- Browseable and searchable

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## Example of a subject directory

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## The Most Popular Search Tools



Key:

- GG=Google
- YH=Yahoo
- MSN=MSN
- AOL=AOL
- AJ=Ask Jeeves
- NS=Netscape
- OVR=Overture
- IS=InfoSeek
- AV=AltaVista
- LY=Lycos
- LS=LookSmart
- ELNK=Earthlink

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## What to do before you start...

Taken from:  
Bernie Dodge  
"What to do before searching"  
<http://webquest.sdsu.edu/searching/stepzero.html>

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## Think about your topic

What is the question you're trying to answer?

Think about the...

- people
- terms
- organizations
- places
- objects, etc.

...that will most probably be on the Web page that will contain your answer

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## Assignment #1

Write down a reference question on your worksheet.

Don't make it extremely narrow, but do not make it too broad. For example:  
"Where would I find research dealing with the impact of technology on student achievement?"

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## Create a 3M list of search terms

- Must: surely appear
- Might: synonyms
- Mustn't: not interested

Must	Might	Mustn't

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## Assignment #2

- On the 3M chart on the worksheet, list key words that must, might, and mustn't be on the page that will answer your question.

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## AltaVista Advanced Search

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## Advanced Search Page

- Most comprehensive search engines have an advanced search page
- May or may not allow Boolean
- May be fill-in-the-blank

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## Basic Boolean

**AND** results must contain all words joined by AND (**Saturn AND planet**) = **Fewer hits**

**OR** results must contain at least one of the words (**elevator OR lift**) = **More hits**

**NOT** results will not contain word after the term NOT (**nirvana AND Buddhism NOT rock NOT music**) = **Fewer hits**

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## Boolean Search Machine

- Visit <http://kathyschrock.net/4cs/>
- Visit Rockwell Schrock's Boolean Machine
- Brainstorm ways to use this with students

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## Assignment #3

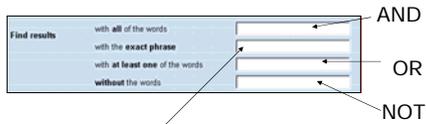
1. On the worksheet, write two Boolean queries using true Boolean operators
2. Go to <http://kathyschrock.net/4cs/>
3. Click on AltaVista Advanced Page link
4. Conduct your two searches and note both the number of hits and the relevancy of the results

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## Google Advanced Search

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## Google Advanced Search



PHRASE SEARCH

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## Assignment #4

1. Create your queries in the Google boxes on the worksheet, without using phrases
2. Go to <http://kathyschrock.net/4cs/>
3. Click on Google Advanced Page link
4. Conduct your two searches (again) and note both the number of hits and the relevancy of the results
5. Try a phrase search and note relevancy

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## Strategies for Using Google

Taken from:  
Bernie Dodge  
"Four NETS for better searching"  
<http://webquest.sdsu.edu/searching/fournets.htm>

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## Start Narrow

- Think of all the words that would always appear on the perfect page.  
*Put in the **WITH ALL THE WORDS** field*
- Think of words that might help you eliminate distracting pages.  
*Put in the **WITHOUT** field.*
- If there's a term with synonyms, either of which might appear on the page you're after, *put them in the **WITH ANY OF THE WORDS** field.*

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## Phrase searching

- Helpful for finding names of places, people and books
- Useful if you remember a distinctive phrase
- Can see if work is "borrowed"
- Can stamp out "urban legends"

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## Assignment #5

On your worksheet, fill in the Google search boxes with the terms you might/might not use for a search looking for information literacy skills for grades K-8.

Go to Google Advanced search, conduct the search, and note the number of hits.

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## One answer to assignment #5

**Find results**

with **all** of the words

with the **exact phrase**

with **at least one** of the words

**without** the words:

Number of hits: 8470

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## Google Advanced Search Extras

**Language** Return pages written in

**File Format**  return results of the file format

**Date** Return web pages updated in the

**Occurrences** Return results where my terms occur

**Domain**  return results from the site or domain

**SafeSearch**  No filtering  Filter using [SafeSearch](#)

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## Google Page-Specific Search

**Page-Specific Search**

**Similar** Find pages similar to the page

**Links** Find pages that link to the page

- Use to find pages with like vocabulary and links
- Use to find pages that link to a page you like
- Use to “ego” surf

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## Things to ask yourself

- Can I do wildcard searches with this search engine?
  - educat\* to get education, educator, etc.
- Does capitalization make a difference?
- Does the order of names make a difference?

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## Assignment #6

- Go to <http://kathyschrock.net/4cs/>
- Visit the help files for AltaVista and Google
- Fill in the chart on your worksheet

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## Answers to Assignment #6

Search Engine	Wildcard searching allowed?	Capitalization make a difference?	Name order make a difference?
AltaVista	Y		
Google	N		

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## General Search Strategies

Taken from:  
Joyce Valenza  
"Expanding the searching toolkit"  
*Classroom Connect*, December 2000/January 2001

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## General searching tips 1

- Do some thinking before going online
- Choose the most unique terms you can
- Avoid common words unless in a phrase
- Use words that you want to see in results
- Type the most important words first
- Use at least 3 keywords

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## General searching tips 2

- Constantly refine your search
- Examine the results, looking for words
- Read the tips page of the search tool
- Start at the advanced search page
- Check your spelling

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## Google "fun" stuff

- Calishain, Tara, et.al.  
*Google Pocket Guide*.  
O'Reilly Press, 2003.



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## Google Image Search

- Archive of over 425 million images
- Everything from icon-sized images to portrait-sized pictures
- Start with advanced search page to choose options

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## Google Groups

- Archive of 20 years of Usenet
- Over 200 million messages
- Browseable and searchable
- Helpful when determining authority
  - Groups main page: Kathy Schrock
  - Advanced page: author Kathy Schrock

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## Google Group Posting

- Click on  
BROWSE COMPLETE LIST OF GROUPS
- Drop down INTERLOG-LEXNEWS
- Choose K12
- Choose k12.library
- Choose to POST TO...
- Have to register for a Google account

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## Google News

- Mines over 4500 news sources
- Headlines are clustered by subject
- Continuously updated

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## Google Directory

- Multi-subject directory
- Smaller than the search indices
  - 1.5 million pages vs. 3 billion
- Based on the Open Directory Project

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## Froogle

- Locates stores that sell the item you want to find
- Points you directly to the place where you can make a purchase

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## Google Catalogs

- Search over 6000 print catalogs
- Scanned in pages from catalogs
- Searchable by keyword

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## Google "Hacks"

- Cookin' with Google



The screenshot shows a web form titled "Cookin' With Google". It contains a text input field for "Gimme a couple of ingredients:" and a dropdown menu for "Please tell me what kind of recipe you want:" with "General" selected. Below the form are two buttons: "Grab A Recipe" and "Start Over".

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## Google "Hacks"

- o Googlefight



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## Assignment #9

- o Go to <http://kathyschrock.net/4cs/>
- o Visit 2 of the specialized Google pages
- o On the worksheet, jot down something neat and something you learned about them
- o Be prepared to share

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## Searching for Information

- o I need a few good hits **fast**.
  - Google: general purpose search engine
  - Ixquick: meta-search engine
- o I need **quality, evaluated pathfinders** prepared by a **subject expert**.
  - Pinakes: a launchpad to academic directories
  - About.com: subject expert-created pages

Abileck, Debbie. Choose the best site for your information need. [www.rockwell.com/debbie/ier/acies/information/5locate/advicengine.html](http://www.rockwell.com/debbie/ier/acies/information/5locate/advicengine.html)

## Assignment #10

- o Go to <http://kathyschrock.net/4cs/>
- o Click on "Best tool for the job" link
- o Visit 4 sites you have never visited and conduct searches
- o Be prepared to share results and discoveries. Take notes on your worksheet.

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## Wrap-Up of searching

- o Search engines are a-changin'
- o Visit [searchenginewatch.com](http://searchenginewatch.com)
- o Boolean searching has been refined
- o Visual search engines are a-comin'
- o Invisible Web access via directories

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## Online Tools Investigation

## Online Tool definition

- An Internet-accessible site allowing the creation of an interactive Web page for student use, or one which allows the use of the Internet to create an offline product

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## TrackStar

- TrackStar is a Web page creation tool that provides the creator with the ability to add links, activities, and see a Web page all in a neat little window

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The screenshot shows a web browser window displaying a TrackStar assignment page. The page title is "Robotic Pets & The Elderly". The page content includes a "List of Sites" on the left, a "Project Overview" section with images of a robot and an elderly person, and a "Lead Researcher" section. Three arrows point to specific elements: one to the "List of Sites" (labeled "Links to sites"), one to the "Project Overview" section (labeled "Web site"), and one to the "Lead Researcher" section (labeled "Instructions").

## TrackStar Assignment

- Visit <http://kathyschrock.net/4cs/>
- Click on the TrackStar link
- Do some searching and browsing
- Be prepared to explore ways to use this with students
- Can the information on this site be useful in other ways?

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## Puzzlemaker

- Online tool for word searches, crossword puzzles, and much more
- Visit <http://kathyschrock.net/4cs/>
- Create a puzzle based on information you have learned today
- Print it out

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## BibBuilder

- MLA-style bibliography builder
- Visit <http://kathyschrock.net/4cs/>
- Try the tool out

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## 3-D Text Maker

---

- Create “cool” text pictures for use on Web pages
- Visit <http://kathyschrock.net/4cs/>
- Create 3-D text images using the words and save them to the desktop
  - NEW
  - E-MAIL ME
  - WOW

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## Other online tools

---

- Visit <http://kathyschrock.net/4cs/>
- Click on *Online Tools for Teaching and Learning*
- Visit 5 sites
- Be prepared to share the ways you would use one with students

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## Online Tools Wrap-up

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- There are many free online tools for creating both online and offline content for students
- Some provide parts for free and parts for a fee

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## Blog Overview

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## Web Logs in Education

---

- Easily created, easily updated Web pages or Web sites that can be accessed and edited from the Web browser of any Internet-connected computer.

<http://www.weblogg-ed.com/>

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## What are some different uses?

---

- Online student portfolios or filing cabinets where assignments and projects are stored
- Class portals where teachers keep homework assignments, links, handouts, syllabi, etc.
- collaborative writing spaces where students read and give feedback to one another.
- Reader's guides for literature study, newspapers, and project sites where students create and contribute all content

<http://www.weblogg-ed.com/>

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## Impact on teaching and learning

- Easy-to-use web publishing tools like Web logs has effectively lowered the technology barrier
- Features provide ideal spaces for the presentation and discussion of knowledge and information
- Open, flexible nature of Weblogs encourages dialogues among all participants

<http://www.weblogg-ed.com/>

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## Tech Blog: [kathyschrock.blogspot.com](http://kathyschrock.blogspot.com)



Post comment →

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## Creating your first blog

- Let's work through the registration and template-choosing process
- Go to <http://www.blogger.com/>



Create a new blog

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## Create a new account



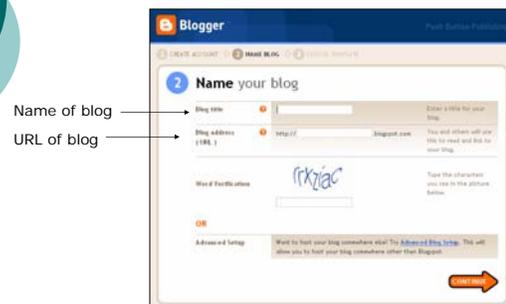
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## Create a new blog



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## Name your blog



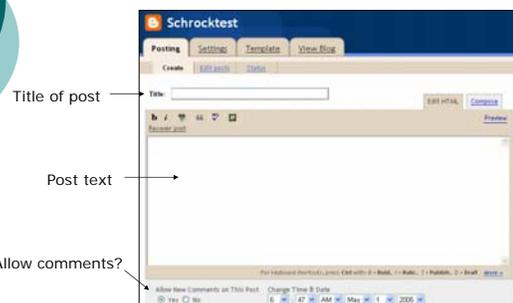
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## Choose your template



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## Start posting



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## 3 postings to create on your blog

- Introduction to the blog
- List of 3 curriculum-related links
- Probing question you want students to answer

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## Objectives met...

- Learn effective evaluation skills
- Understand the components of critical evaluation of Web information
- Identify online tools to support instruction
- Become familiar with online professional collaboration
- Create an online communication area

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## The End

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<http://kathyschrock.net/4cs/>

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