

Web Design Considerations for Instruction and Feedback



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Web-based instruction is:



“teaching and learning supported by the attributes and resources of the Internet.”

- Khan, 1997; Relan & Gillami, 1997

Conversing, Discussing



- Relating and comparing perspectives
- Example: students could be tasked with reading a common book and discussing perspectives.

→ Cultural Ecology, University of Wyoming

Mentoring, Questioning, Supporting a Partner



- A mentor reviews student work and provides critique.
- Example: students partner and help one another succeed.

→ Hewlett-Packard Telementor Program

Debating



- Students defend a position.
- Example: student conducts preliminary research and collection of evidence to support positions.
 - Reintroduction of the Wolf into the Southwest, Penn State

Impersonating, Role Playing



- Interacting with others who impersonate someone; impersonating someone yourself.
- Example: Preparing a document, play, or other work from the perspective of another person
 - Murder on the Internet, California State University, San Bernardino

Sharing Data, Analyzing



- Collecting information locally and sharing it with others remotely.
- Example: making use of data collected globally to analyze marketing or business trends and issues

→ Journey North, Annenberg CPB

Developing a New Product or Artifact



- Working on a project with others locally or distant, sharing resources, exchanging documents, with the goal of producing some artifact (e.g., web page, article)

→ [Multimedia History Tutorials](#), University of Calgary

Traveling Virtually, Situating Curriculum in the Context of Expeditions



- Online expeditions, communicating with travelers and learning about local cultures, using expedition data for interdisciplinary purposes (math, writing, history, geography, agriculture).

→ [America Quest](#), Classroom Connect

Seeking, Collecting, Organizing, Synthesizing Online Information (Research)



- Can be arranged in terms of a scavenger hunt
- Students are not simply provided with a page of links or resources; they are specifically tasked with accomplishing some end goal.

→ [Science NetLinks](#), Am. Ass. for Adv. of Sci.

Exploring Real-World Cases or Problems



- Students explore real cases, or use Internet data (e.g., stock market, weather) to practice decision making.
- Example: use virtual simulations with students testing personal hypotheses or designs.
 - Strategic Management in Agribusiness, Ohio State

Accessing Tutorials with Exercises, Quizzes, Questions, Online Drill-and-Practice



- Students review content material online, then access interactive exercises to practice or apply the material presented.

→ National Federal Budget Simulator, Berkeley

Basic Site Design Issues



- Know the Web
- Define Your Site
 - What are the site goals?
 - Who is the audience?
 - What is the content?
- Let the Audience Know You
 - Provide contact information

More Basic Site Design Issues



■ Organize Content

- ▶ Provide an index, such as a site map, to the content

■ Navigation

■ Technical Issues

- ▶ Screen size
- ▶ Graphics - [Web Pages That Suck](#)
- ▶ Color
- ▶ Accessibility - [Accessible Web Pages](#)



Web-Based Instruction Activity Structures

<http://www.edtech.vt.edu/edtech/id/wbi/>

Accessible Web Pages Guidelines & Resources

<http://www.edtech.vt.edu/edtech/accessible/disabled.html>

Web Pages That Suck

<http://www.webpagesthatsuck.com>