

Learning Object Planning Documents

Rationale or Need:

Despite the widely repeated axiom of K-12 educators that displaying student work increases student motivation and quality of work, few teachers arrange for their middle and secondary school students to publish work on the web. There may be a variety of explanations for this. Explanations may include lack of access to hardware, lack of access to software, lack of access to training (for students and teacher) or lack of interest. Two of these possible constraints (lack of software and training) can easily be remedied to eliminate them as possible explanations for limited student publishing on the Internet. Through the development of a web based learning object that draws together free web development resources and a training guide, this project will provide the free tools and basic skills for active participation in the information revolution to anyone with 5th grade reading skills and access to a networked Macintosh OS X computer. Publishing on the web represents an opportunity to integrate curriculum and technology skills in a medium that continues to intrigue, motivate and encourage students to showcase their best work.

Goals and Objectives:

In participating in this tutorial students will become aware of free resources on the web and will develop an understanding of how a basic web page is constructed. Specific learning objectives are below.

Given a Mac OS X work station and two 50 minute work periods, the student will:

- a. correctly name one free web page authoring software and
spell the name (Mozilla Composer or Yahoo! GeoCities).
- b. create, format and save a web page with a 2 x 2 table containing text,
an image, and a link to another web page.
- c. correctly upload one html file to an account set up for them on Yahoo!
GeoCities (<http://www.geocities.com/bulldogs96813/>).
- d. identify and match screen shots of Mozilla tools to the correct function
description in 4/5 questions.
- e. complete a checklist style self-evaluation rubric of their web
page product.

Students participating in this module will be 6-8th grade students who come to the computer lab at Central Middle school either with their class or on their own time.

Because of the complexity of the project, the target audience is students with reading skill levels of no less than 5th grade reading equivalent. The population at this school is 87% qualified for free and reduced lunch indicating many families who do not have the financial means to own a home computer so the technical skill prerequisites will be held to the minimum possible level.

Procedeures:

The team is composed of one person who will serve as the instructional designer and developer.

Key tasks and time line:

- 4 hrs Researching the Sharable Content Object Reference Model.
- 2 hrs Becoming more familiar with free web design software (Mozilla Suite).
- 1 hr Identifying possible free host services for student products (GeoCities has been selected).
- 1 hr Identifying resources for free image use (animated gifs and clip art).
- 3 hrs Modeling an instructional design format based on available resources.
- 20 hrs Developing the module.
- 3 hrs Observe module use by selected tryout students and teachers.
- 5 hrs Revising the module based on feedback from tryout cases.
- 4 hrs Implementing with 2 groups of students.
- 4 hrs Assessing student web page products, quizzes and self-evaluation rubrics.

Technical Requirements:

- Internet connection
- Mac OS X computers
- Downloads of free software

Outside Resources Needed:

- Downloads of free software

No budget needed.

Planning Tools:

Content Outline:

0. Software Check and Launch or Download
1. Begin Tutorial
2. Make a Table
3. Save As
4. Add Text
5. Add an Image
6. Create Links
7. Save
8. Publish

Sketch / Interface:

A Guide to creating FREE web pages on an OS X Mac

Let's start with a Software Check:

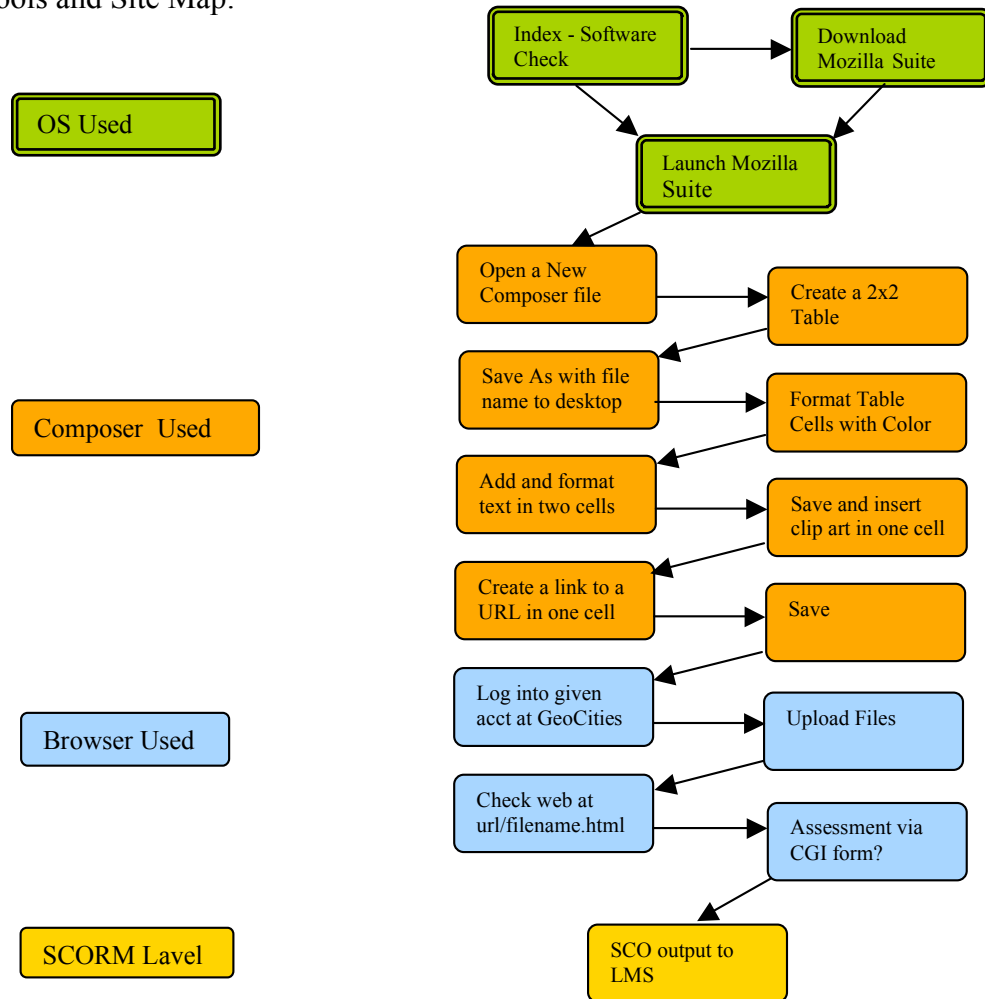
Step 1. Click the 'Spotlight'  symbol in the corner of your screen

Step 2. Type 'mozilla.app'

Step 3. If you see Mozilla.app listed under Applications, please click on the  then go to Step 5

Step 4. If you don't see Mozilla.app in your spotlight window then go to this link: [Mozilla Suite](#) to download the free software package for 'Mac OS X'

Software Tools and Site Map:



Evaluation Plan:

Tryout subjects will be drawn from the instructional designer's 7th grade home-room students. These students are representative of the general school population and are situated in the middle age group between 6th and 8th graders. Further tryout subjects will be drawn from the pool of teachers at the middle school to gather their feedback and encourage them to use the learning object with their own classes. This feedback will be used to reevaluate and modify the Sharable Content Object.

The data source for collection will be two fold: 1. the students web page products will be posted to <http://www.geocities.com/bulldogs96813/>filename.html for later evaluation, and 2. The students will submit a CGI form that contains quiz questions and self-assessment on meeting the criteria for the web page design (such as creation of links and formatting text). This CGI form will have to be formatted to output the SCO data to any potential LMS if this module is to meet the model established in SCORM.

Evaluation Criteria:

1. Web Page:

- Web page demonstrates student ability to create, format and save a file in a web design suite.
- Web page contains a 2 x 2 table containing formatted text, an image, and a link to another web page.
- Web page is correctly uploaded to account set up for students on Yahoo! GeoCities (<http://www.geocities.com/bulldogs96813/>).

2. CGI form:

- Student correctly names one free web page authoring software and spells the name accurately (Mozilla Composer or Yahoo! GeoCities).
- Student can match screen shots of Mozilla tools to the correct function description.
- Student completes a checklist style self-evaluation rubric on their web page product.