



BUSINESS & COMPUTER SCIENCE

COURSE: Business & Computer Science

UNIT 7: Web Page Design

INTRODUCTION

Annotation:

Students will learn how to plan and design a webpage using web design software.

Grade(s):

<input type="checkbox"/>	6 th
<input checked="" type="checkbox"/>	7 th
<input type="checkbox"/>	8 th

Time:

5 hours

Author:

Keri Beth Tidmore

Students with Disabilities:

For students with disabilities, the instructor should refer to the student's IEP to be sure that the accommodations specified are being provided appropriately. Instructors should also familiarize themselves with the provisions of Behavior Intervention Plans that may be part of a student's IEP. Frequent consultation with a student's special education instructor will be beneficial in providing appropriate differentiation. Many students (both with and without disabilities) who struggle with reading may benefit from the use of text reading software or other technological aids to provide access to printed materials. Many of these are available at little or no cost on the internet.

FOCUS STANDARDS

GPS Focus Standards:

MSBCS-BCSII-8 The student will utilize web page design software.

- a) Identify uses of web pages and careers related to web page in today's workplace.
- b) Identify and explain web page terminology including the elements of a web page.
- c) Plan and design a web page.

GPS Academic Standards:

M7A3 Students will understand relationships between two variables.

M7D1 Students will pose questions, collect data, represent and analyze the data, and interpret results.

M7P3 Students will communicate mathematically.

M7P4 Students will make connections among mathematical ideas and to other disciplines.

UNDERSTANDINGS & GOALS

Enduring Understandings:

- Students will understand careers available in the web design field.
- Students will understand the different uses of web sites.
- Students will understand the difference between good and bad web design.
- Students will understand the planning involved in creating a webpage.
- Students will understand how to make a webpage using web design software.
- Students will understand how to calculate costs of different products that are on sale.

Essential Questions:

- What makes good web page design?
- How are web pages planned and designed using web design software?
- How are sales prices calculated? How do you find the price on a sale product?

Knowledge from this Unit:

Students will be able to:

- Explain why web design software allows the user to create web pages more easily than using HTML code.
- Compare and contrast good and bad web design features.
- Calculate the price of a product that is on sale.

Skills from this Unit:

- Students will be able to create a website using Dreamweaver once this unit is complete.

ASSESSMENTS

Assessment Method Type:

- ☐ Pre-test
- ☒ Objective assessment - multiple-choice, true- false, etc.
 - ☒ Quizzes/Tests
 - ☐ Unit test
- ☒ Group project
- ☐ Individual project
- ☐ Self-assessment - May include practice quizzes, games, simulations, checklists, etc.
 - ☐ Self-check rubrics
 - ☐ Self-check during writing/planning process
 - ☐ Journal reflections on concepts, personal experiences and impact on one's life
 - ☐ Reflect on evaluations of work from teachers, business partners, and competition judges
 - ☐ Academic prompts
 - ☐ Practice quizzes/tests
- ☒ Subjective assessment/Informal observations
 - ☐ Essay tests
 - ☒ Observe students working with partners
 - ☐ Observe students role playing
- ☒ Peer-assessment
 - ☒ Peer editing & commentary of products/projects/presentations using rubrics
 - ☐ Peer editing and/or critiquing
- ☒ Dialogue and Discussion
 - ☐ Student/teacher conferences
 - ☒ Partner and small group discussions
 - ☐ Whole group discussions
 - ☐ Interaction with/feedback from community members/speakers and business partners
- ☐ Constructed Responses
 - ☐ Chart good reading/writing/listening/speaking habits
 - ☐ Application of skills to real-life situations/scenarios
- ☐ Post-test

Assessment Attachments and / or Directions:

Web Page Design: Careers and Uses in Today's Society
 Web Page Design: Good vs. Bad Features
 Web Page Design: Dreamweaver Notes
 Web Page Design: Dreamweaver Quiz Information
 Web Page Design: Dreamweaver Quiz
 Web Page Design: Dreamweaver Quiz Different Version
 Web Page Design: The Project
 Web Page Design: The Rubric
 Web Page Design: Dreamweaver Start Info
 Web Page Design: Easy Steps for Dreamweaver

LESSON PLANS

• LESSON 1

1. Identify the standards. Standards should be posted in the classroom.

MSBCS-BCSII-8- The students will utilize web page design software.

- a) Identify uses of web pages and careers related to web page in today's workplace.
- b) Identify and explain web page terminology including the elements of a web page.
- c) Plan and design a web page.

- Teacher will identify the GPS that are to be learned in this lesson (see above).
- Teacher will pass out a worksheet on careers and uses of web design in today's society.
- Teacher will generate a discussion with students about the different types of careers that are related to web design. Students will write down findings on their worksheet.
 - Use this website for more information about Graphic Design and other related careers to help guide student discussion:
<http://www.bls.gov/oco/ocos090.htm#related>
- Teacher will then discuss the different uses of web design in today's society with the students. Students will write down findings on their worksheet.
 - For this part, students should brainstorm the different uses of websites in today's society.

2. Review Essential Question(s). Post Essential Questions in the classroom.

- What makes good web page design?
 - How are web pages planned and designed using web design software?
 - How are sales prices calculated? How do you find the price on a sale product?
-
- Transition from talking about careers and uses of web design into good vs. bad web design features.
 - Teacher will give students the Good vs. Bad Web Design worksheet.
 - Students will go to this website and complete the worksheet in groups of 2-3 students:
<http://www.ratz.com/features.html>
 - Teacher will model how to create a basic web page for students using the appropriate web design software. A guide for the students notes in Dreamweaver is provided.

3. Assessment Activities

- Teacher will give students the information for the Dreamweaver Quiz (This should have been taught above).

- Teacher will administer Dreamweaver Quiz on Day 2. Two different versions of the quiz are provided.
- After the quiz on Day 2, teacher will go over the web design project with students and provide them with the instruction sheets for the project.
- Teacher will also provide the students with the web design rubric and review each part of the rubric with the students.
- Additional information sheets on how to use the web design software should be provided to the students.
 - Dreamweaver Information is provided in this lesson.
- After the groups are finished making their websites, you can have a contest between the groups to see who designed the best one.
- Then, have a summarizing activity at the end to discuss why the winner is/isn't the best and see which groups offered the best deals for their products.
- Have the students calculate the costs for each of the sales products that each group offered. Then you can discuss which one is the best deal.

• ATTACHMENTS FOR LESSON PLANS

- BCS_7-7-2_Web Page Design_Careers and Uses
- BCS_7-7-3_Web Page Design_Good vs. Bad
- BCS_7-7-4_Web Page Design_Dreamweaver Notes
- BCS_7-7-5_Web Page Design_Dreamweaver Quiz Information
- BCS_7-7-6_Web Page Design_Dreamweaver Quiz
- BCS_7-7-7_Web Page Design_Dreamweaver Quiz Different Version
- BCS_7-7-8_Web Page Design_The Project
- BCS_7-7-9_Web Page Design_The Rubric
- BCS_7-7-10_Web Page Design_Dreamweaver Start Info
- BCS_7-7-11_Web Page Design_Easy Steps for Dreamweaver

• NOTES & REFLECTION:

This web design project focuses on Dreamweaver but the teacher may opt to use other web design software.



CULMINATING PERFORMANCE TASK

Culminating Unit Performance Task Title:

Create a Web page as described in the lesson.

UNIT RESOURCES

Web Resources:

- <http://www.ratz.com/features.html>

Materials & Equipment:

- Computers with the internet and web design software.

21st Century Technology Used: Type an "X" in the boxes to indicate 21st century technology used in this lesson.

<input type="checkbox"/>	Slide Show Software	<input type="checkbox"/>	Graphing Software	<input type="checkbox"/>	Audio File(s)
<input type="checkbox"/>	Interactive Whiteboard	<input type="checkbox"/>	Calculator	<input checked="" type="checkbox"/>	Graphic Organizer
<input type="checkbox"/>	Student Response System	<input type="checkbox"/>	Desktop Publishing	<input type="checkbox"/>	Image File(s)
<input checked="" type="checkbox"/>	Web Design Software	<input type="checkbox"/>	Blog	<input type="checkbox"/>	Video
<input type="checkbox"/>	Animation Software	<input type="checkbox"/>	Wiki	<input type="checkbox"/>	Electronic Game or Puzzle Maker
<input type="checkbox"/>	Email	<input checked="" type="checkbox"/>	Website		