

## 13.2 - Creating for the Web

Grading:

Notes: \_\_\_\_\_/20

Lesson Review: \_\_\_\_\_/20

Programming languages: \_\_\_\_\_/30

Pictures: \_\_\_\_\_/30

Total points: \_\_\_\_\_/100

### Essential Question

- How does the efficiency of web programming impact the usability of a web page?

### Section 13.2 Learning Goals

After completing this section, you will be able to:

- Identify graphic design principles that should be applied when creating a web page.
- Explain how to create a basic web page using HTML.
- Discuss programming languages used to create web pages.

### Competencies

- 6670.81 Explain the purpose and functions of computer programming.
- 6670.82 Identify the types of programming languages.
- 6670.84 Design a simple program for a specific application.
- 6670.85 Create a simple computer program.

### Terms

- alignment
- cascading style sheet (CSS)
- contrast
- external style
- inline style
- internal style
- JavaScript
- PHP hypertext preprocessor
- proximity
- repetition
- semantic tag
- tag
- validation

### Designing for the Web

- **Contrast**
  - Degree of difference between \_\_\_\_\_ in a design
  - Use large items with small items
- **Repetition**
  - When an \_\_\_\_\_ occurs more than once
  - Pattern
- **Alignment**
  - Placing elements in \_\_\_\_\_ to key points in other elements
  - Can enhance message

- **Proximity**
  - How \_\_\_\_\_ elements are placed to each other
  - Items placed closely will be seen as a group

#### HTML

- HTML files are:
  - Text only
  - End with .html or .htm
  - Stored in folder accessible to Internet
- **Tag** is a code \_\_\_\_\_ in chevrons that tells the browser how to format or display content
- **Validation**
  - Process of \_\_\_\_\_ code to ensure it contains no errors of syntax or usage
  - validator.w3.org
  - HTML is forgiving language
    - Errors are not reported
    - Browser \_\_\_\_\_ errors and tries to best display remainder of the page

#### Programming Languages

- **JavaScript**
  - Object-oriented programming \_\_\_\_\_ most often used in web development
    - Create interactive buttons
    - Vary user's experience
- PHP and Other Hypertext Preprocessors
  - **PHP hypertext preprocessor** \_\_\_\_\_ interactions and supplies database support using SQL
  - *Server-side technology*

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#### Section 13.2 Review

1. Excessive use of digital technology may be considered an addition True/False?
2. What are four basic design principles that should be applied to the design of a website?
  - a.
  - b.
  - c.
  - d.
3. Languages often used to program interactivity include JavaScript and PHP? True/False

4. What does validation do for a web page?
  5. What is required to add database support to a web page?
  6. A server is a:
    - a. specialized computer.
    - b. conductive wireframe.
    - c. set of ports to the Internet.
    - d. client machine.
  7. What is the special policy many schools, organizations, and companies have the outlines ethical uses of online resources?
    - a. License Agreement
    - b. Acceptable use policy
    - c. Plagiarism agreement
    - d. Internet piracy policy
  8. What format must an HTML file take?
    - a. Executable
    - b. App
    - c. Media
    - d. Plain text
  9. How does the World Wide Web relate to the Internet?
    - a. Not at all; they are two disjointed entities
    - b. They are identical
    - c. The World Wide Web is a subset of the Internet
    - d. The Internet is a subset of the World Wide Web
  10. When an error is made in HTML code, the browser \_\_\_\_\_
    - a. Displays an error message
    - b. Sends an update to the user
    - c. Displays an error number
    - d. Ignores it
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## **Programming Languages**

Go to the Wikipedia website ([www.wikipedia.org](http://www.wikipedia.org)). Use the site's search function, and search for programming languages used in most popular websites. If the site does not transport you directly to the article, click the link in the search results that matches the search string. Examine the information in the article. Write 2 paragraphs discussing the accuracy, relevance, and validity of the information on this web page.

## **Pictures**

Go on the internet and find 10 pictures and save them in a folder in your drive. Screen shot the folder showing the 10 pictures.