**Lesson 4: Formatting Tags & Character Entities**

**The Learning:**

***Basic Formatting Tags***

*Formatting tags allow you to add even more meaning and style to your websites.*

* Click the link below, then read through the “formatting” section of the **Chapter 10** page:
  + [**http://www.goodellgroup.com/tutorial/chapter10.html**](http://www.goodellgroup.com/tutorial/chapter10.html)
* Click the link to w3schools’ [HTML Text Formatting Elements](http://www.w3schools.com/html/html_formatting.asp) page then read through to supplement the tags discussed in the GoodellGroup tutorial (marked/highlight, inserted/underlined, superscript, subscript)

**The Doing:**

***Activity (/3):***

Create a new html document in Notepad. Save it as “**formatting.html**” inside your html folder.

Inside, type in or copy and paste (from your “htmlskeleton” site) the HTML Skeleton into your new document. In your Notepad document, use your knowledge of the formatting tags you’ve just learned to add both content (the name of each type of formatting on a new line, with a space in between – use <p> or <br>: Ex. Here is bold text.) and relevant formatting (the type of formatting tag described by each bit of content). Try to do this by memory before looking at the actual code snippet from Chapter 10. Check your results by opening your document inside a web browser.

***Comprehension Questions (/8):***

1. (/1) What is the purpose of a formatting tag?
2. (/5) What are the different formatting tags discussed in class?
3. (/2) What is the difference between bold vs. strong? Italics vs. emphasis?

**The Handing In:**

Hand your “basicorganization.html” document, “formatting.html” document, as well as this lesson3 document (with your responses to the comprehension questions included) into the Shared > Hammond > Hand-In folder.

**The Learning:**

***Named Character Entities (aka Special Characters)***

*Named character entities are special characters or symbols that cannot be displayed via a web browser and require special coding in order to appear.*

* Click the link below to watch the HTML Essential Training Video:
* Displaying Special Characters: <https://www.youtube.com/watch?v=28nS4rHNnUw>

***\*READ: Key Information about Named Character Entities***

* Definition: Named character entities are special characters or symbols that cannot be displayed via a web browser and require special coding in order to appear.
* General Format: &entityname;
  + Example: to display ampersand (&) = &amp;
* Extremely useful in the following situations:
  + Displaying code examples
  + Displaying mathematical formulas
  + Displaying copyright and trademark symbols
* The more commonly used entities have intuitive names. Some common entities:
  + Ampersand (&) - &amp;
  + At (@) - &commat;
  + Left Angle Bracket (<) - &lang;
  + Right Angle Bracket (>) - &rang;
  + Copyright – &copy;
  + Trademark – &trade;
  + Cent - &cent;
  + Number - &num;
  + Left Arrow - &larr;
  + Checkmark - &check;
  + Non-Breaking Space - &nbsp;
  + Quotation - &quot;
* There are literally thousands of Character Entities; the key ones are listed in Wikipedia, and a more complete list is available in the Character Entity search engine “Amp-What”:
  + Wikipedia’s Commonly Used Character Entities List:
    - <https://en.wikipedia.org/wiki/List_of_XML_and_HTML_character_entity_references>
  + Amp-What’s Character Entity Search Engine:
    - <http://www.amp-what.com/unicode/search/square>

**The Doing:**

***Activity (/15):***

Create a new .html document, and save it as “**character\_entities.html**” inside your “character\_entities” folder. Add the basic html skeleton to your .html document.

* (/5) Select 10 character entities from one of the resources hyperlinked above, and code them into your Notepad document.
* (/5) Beside each entity, include a second copy – but leave the semicolon (;) off the end so that the code, rather than the entity, appears.
* (/3) Format this document so that each pair of entities appears on its own line.
* (/2) Add a title, and a description to your .html document.

***Comprehension Questions (/8):***

1. (/3) What types of html codes have we covered, so far? (tags, attributes, character entities)
2. (/1) What is a Named Character Entity?
3. (/1) What is the general format of a Named Character Entity?
4. (/3) What are 3 commonly used Character Entities?

**The Handing In:**

Hand your “formatting.html,” document “character\_entities.html” document, as well as this lesson4 document (with your responses to the comprehension questions included) into the Shared > Hammond > Hand-In folder.