Name(s)_____ Period _____ Date _____

Activity Guide - Sending Formatted Text

Directions
Work with a partner or in a small team to develop a protocol that allows you to send formatted text.

Guidelines
- Both the text and the formatting instructions must be derived from the printable ASCII character set (i.e. codes 32-126).
- Your protocol must encode at least:
  - bold, italics, and underlining
  - three different font sizes (large, medium, and small)
  - three different font colors (red, black, blue)
- You will demonstrate that your protocol works by having the recipient be able to faithfully draw (or produce in some fashion) the formatted text, based only on the data she received through an ASCII-text version of the Internet Simulator. A sample message can be found below.

Whoa, this **message** *sure* has a *lot* of FORMATTING **in it!**

Develop Your Protocol
Use the space below to brainstorm ideas for your protocol. Iteratively improve your protocol by testing it out with simple sample messages.

Name(s)_____ Period _____ Date
_____

Rubric - Sending Formatted Text

Evaluate the success in creating a protocol for Activity Guide - Sending Formatted Text according to the following criteria. Justify your score for each rating.

Criteria	Yes	No	Comments
The team successfully collaborated to create a workable protocol for sending a formatted message.			
Text Emphasis: bold, italic, underline			
Font Size: small, medium, large			
Font Color: red, black, blue			
Protocol was used to successfully transmit and reproduce a message of formatted text.			
Written documentation of protocol clearly describes all functionality using visual and textual components.			

Reflection

Note: These questions also appear in Code Studio and can be answered there.

1. How many bits are required to store the number "150" in ASCII?
   a. 3 bits
   b. 8 bits
   c. 16 bits
   d. 24 bits
   e. 32 bits

2. The word "Apple" translated into its ASCII number equivalent is:
   a. 097 112 112 108 101
   b. 097 108 108 111 119
   c. 065 112 112 108 101
   d. 065 110 110 105 101
   e. 065 108 108 111 119

3. What problems arose in your efforts to create a working protocol? How did you think about the problems in order to solve them?

4. Describe one instance in which collaboration with a partner influenced the final protocol your team produced.