Sensors and Scatterplots Activity – Post-Activity Assessment

Directions
There are several other relationships that can be analyzed from the data collected. Using the class data sheet, select two different variables to analyze.

1. What two variables are you going to analyze?
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2. Hypothesize what you believe the relationship between the two variables will be.
   __________________________________________________________
   __________________________________________________________

3. Use the data from the Class Data Sheet to create a scatterplot. Make sure you label your axes and include a title.

4. What type of trend do you observe in the scatterplot?
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   __________________________________________________________

5. Write an explanation of the relationship between the variables you selected.
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6. Using a ruler, draw a line of best fit on the scatterplot. Write a prediction question about your scatterplot that can be answered using the line of best fit. If you cannot draw a line of best fit, explain why.

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7. In this activity you used a wrist blood pressure monitor to measure your blood pressure. Engineers have developed a new wrist blood pressure monitor that connects to an iPhone®, iPad® or iPod Touch®. You simply plug it in, wrap it around your wrist and press start. Your results are saved automatically on your device, and can then be shared electronically very quickly and easily. Why do you believe engineers developed this new wrist blood pressure monitor?

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Reflection
Answer in complete sentences (minimum ½ of a page – use an extra sheet of paper if necessary).

Explain why you selected the two variables to analyze. Does the trend that you observed in this scatterplot make sense? Think about the various scatterplots that you analyzed during this investigation like BMI versus systolic blood pressure and BMI versus pulse rate. How do you think looking at these relationships will help you make better health decisions?

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