**Sensors and Scatterplots Activity –   
Creating and Analyzing Scatterplots Worksheet**

**Question 1**

Is there a relationship between systolic blood pressure and BMI?

**Hypothesis**

**Scatterplot 1 Creation**

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

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**Scatterplot 1 Data Analysis**

1. With your team, discuss the trend you see in the scatterplot. What type of trend do you observe in the scatterplot?

1. Write an explanation of the relationship between systolic blood pressure and BMI.

1. Using a ruler, draw a line of best fit on your scatterplot. Using the line of best fit, predict the value of systolic blood pressure a person would have if their BMI value is 24. What would the BMI value be if the person’s systolic blood pressure is 135?

**Question 2**

Is there a relationship between pulse rate and systolic blood pressure?

**Hypothesis**

**Scatterplot 2 Creation**

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

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**Scatterplot 2 Data Analysis**

1. With your team, discuss the trend you see in the scatterplot. What type of trend do you observe in the scatterplot?

1. Write an explanation of the relationship between pulse rate and systolic blood pressure.