## Sensors and Scatterplots Activity Scatterplots with Technology Worksheet

## Directions

Using our class data sheets, we will analyze more scatterplots, using the Create A Graph website to make our scatterplots. Access the website by searching "Create a graph" in your browser search bar, or enter the following address: http://nces.ed.gov/nceskids/createagraph/default.aspx). Complete the following.

## Questions

1. Is there a relationship between BMI and pulse rate? Follow the steps below to find the answer.
a. Select XY graph.
b. Design tab:

- XY Type: select "Scatter"
- Style: for Grid Lines: select "11"
c. Data tab:
- Fill in Graph Title, X Axis Label, Y Axis Label. Leave Source blank.
- Data Set: Points: select number of students on your class data sheet
- Groups: select " 1 "
- Group Label: input your class period/section number
- Input the BMI and pulse rate data under the Points-Value section.
- Input the Min-Value and Max-Value for the x -axis and y -axis.
d. Labels tab:
- Data Labels: select "no"
- Fonts: choose to your liking
e. Preview tab:
- Check your scatterplot for accuracy.
- If you need to make corrections, go back to the previous tabs.
f. Print/Save tab:
- Get your teacher's approval prior to printing.
g. Analyze your scatterplot.

Write an explanation of the relationship between BMI and pulse rate.
2. Is there a difference between male/female data in the relationship BMI and systolic blood pressure?
a. Select XY graph.
b. Design tab:

- XY Type: select "Scatter"
- Style: for Grid Lines: select "11"
c. Data tab:
- Fill in Graph Title, X Axis Label, Y Axis Label. Leave Source blank.
- Data Set: Points: select the number of students on your class data sheet
- Groups: select " 2 "
- Group Label: input "Males" for Group 1 and "Females" for Group 2.
- Input the BMI and systolic blood pressure data under the Points-Value section. (It is okay to leave blank spaces at the end of your list.)
- Input the Min-Value and Max-Value for the x -axis and y -axis.
d. Labels tab:
- Data Labels: select "no"
- Fonts: choose to your liking.
e. Preview tab:
- Check your scatterplot for accuracy.
- If you need to make corrections, go back to the previous tabs.
f. Print/Save tab:
- Get your teacher's approval prior to printing.
g. Analyze your scatterplot.

Write an explanation of what you observe on the scatterplot.

