**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.
	1. Select XY graph.
	2. Design tab:
		* XY Type: select “Scatter”
		* Style: for Grid Lines: select “11”
	3. 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.
	4. Labels tab:
		* Data Labels: select “no”
		* Fonts: choose to your liking
	5. Preview tab:
		* Check your scatterplot for accuracy.
		* If you need to make corrections, go back to the previous tabs.
	6. Print/Save tab:
		* Get your teacher’s approval prior to printing.
	7. Analyze your scatterplot.

Write an explanation of the relationship between BMI and pulse rate.

1. **Is there a difference between male/female data in the relationship BMI and systolic blood pressure?**
	1. Select XY graph.
	2. Design tab:
		* XY Type: select “Scatter”
		* Style: for Grid Lines: select “11”
	3. 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.
	4. Labels tab:
		* Data Labels: select “no”
		* Fonts: choose to your liking.
	5. Preview tab:
		* Check your scatterplot for accuracy.
		* If you need to make corrections, go back to the previous tabs.
	6. Print/Save tab:
		* Get your teacher’s approval prior to printing.
	7. Analyze your scatterplot.

Write an explanation of what you observe on the scatterplot.