Chemistry w/E&S Activity 02 "Melting	Point Periodicity"
Your Name:	Period:
Problem: What type of periodicity exists for	elements 1 - 56?
Hypothesis:	
Materials: Laptop with Excel & periodic table	with melting points
Caution: (no special concerns)	
Procedure: 1. Log in to your computer, start Excel and en each of the first 56 elements in cells A1 2. Enter the melting point of each of the firs to B56. 3. Highlight cells B56 up to A1 so that both c4. Click the "Insert" tab and then click on the and select a Scatter (X,Y) chart with lin 5. Click on the + symbol on the upper right of "Axis Titles" 6. Give your chart the title "Periodicity of M name)". 7. For the horizontal axis label type "Atomic vertical axis label type "Melting Point (8. Carefully right click on the circle pattern Data points and select "Format Data Serie 9. Click on the paint can and then "Marker". So open circles should represent your data pate 10. Print your graph. You only get to do this have correctly done all of the steps about 11. Save your data and graph and log out of the 2. On the graph fill in the circles for the Connect the circles with a smooth curve. 13. Fill in the circles for the Noble Gas elem circles with a "best fit" straight line.	to A56. t 56 elements in cells B1 olumns are darkened. e little graph symbol es and dots. the chart and check felting Points by (your Number" and for the K)". representing one of the es". elect "No Fill". Little points. once so make certain you re. e computer. arbon Group elements and
Observations: (none)	
Data: (none)	
Conclusion:	

Questions:

- 1. What is the definition of periodicity?
- 2. Predict the approximate melting point of the 5th Carbon group element using your graph. Don't look this value up, just predict.
- 3. Predict the approximate melting point of the 6th Noble Gas element using your graph. Don't look this value up, just predict.
- 4. Identify another group of elements that show periodicity of melting points on your graph.
- 5. Do the melting points of elements 1 56 show complete, partial or no periodicity? Explain.

nswers:				
	 	 	 	
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