Graphing Skills

Name:	

Date: _____ Period: _____

In most cases, when two pure substances with melting points that are not extremely different are mixed, the melting point of the mixture is lower than the melting points of either pure substance. Examine the graphs and answer the following questions.



Percentages of Tin and Lead at Given Melting Points

- 1. What type of graphs are these? ______.
- 2. What are the quantities (amounts) given in each graph? What important quantities relate the two graphs to each other? ______.
- 3. By examining the graphs, what can you tell about the milting point of led-tin alloys (mixture)?
- 4. From the information given, estimate the percentages of tin and lead that would have the lowest melting temperature.
- 5. Construct a graph best suited from the information listed in the table below then answer the questions that follow.

Percentage of aluminum in Al-Cu alloy	Melting point (°C)
0	1084
20	930
40	610
60	540
80	600
100	650

- 6. What is the dependent variable? ______.
- 7. What is the independent variable? ______.
- 8. Near what percentage mixture of metals is the melting point lowest? ______.

Graph Title: _____

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