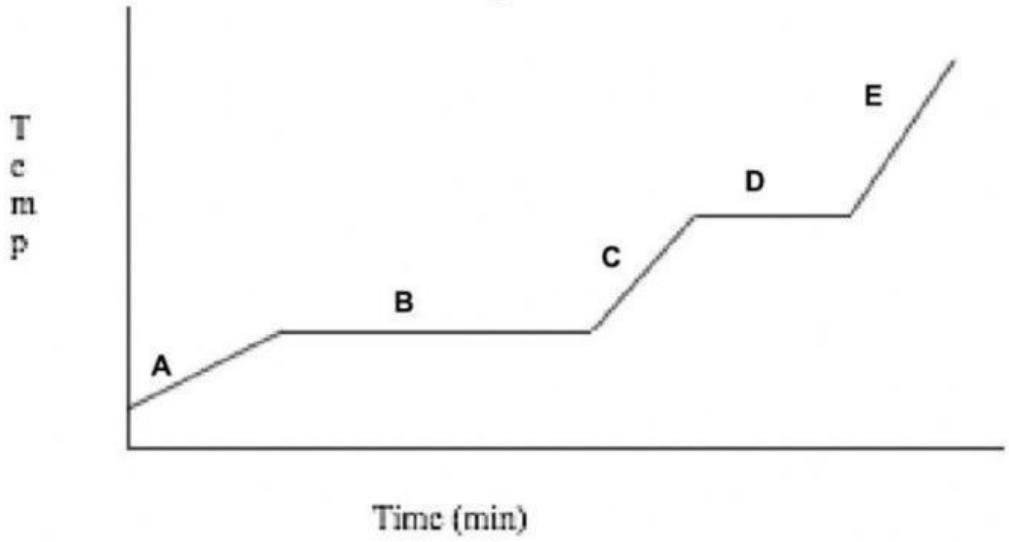
Heating Curves



1. **LABEL the entire graph according to everything we discussed.**
2. How many states of matter are represented in this graph?
3. How many changes of state are present in this graph?

Write the letter from the diagram that best corresponds to each statement:

4. What letter represents the temperature at the Melting Point of this substance?
5. During what **segments** does the graph show no increase in kinetic energy (motion), but there is increasing potential energy?

7. The substance is all liquid in what segment?
8. The substance is all gas in what segment?
9. The substance is all solid in what segment?
10. The substance is both liquid and a gas in what segment?
11. In what state of matter is the substance during segment a?
12. Which segment represents the point at which a solid is turning into a liquid?
13. The substance is both solid and a liquid in what segment?

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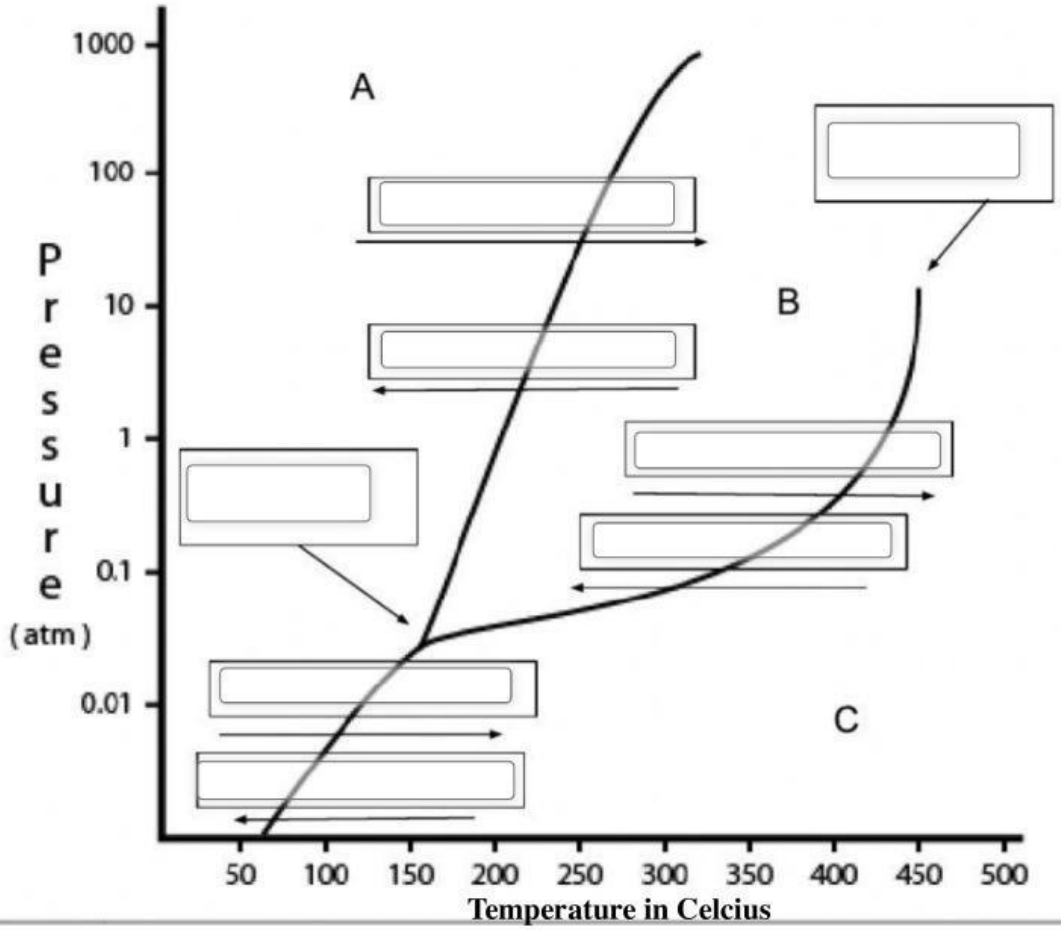
Name:_____ Date:_____

Phase Change Diagrams



1. Which letter corresponds to the Gas phase?_____ Solid?_____ Liquid?_____
2. Circle a point on the graph where the substance exists as both a liquid and a solid
3. Star a point on the graph where the substance exists as both a liquid and a gas
4. What is it called when a solid turns directly into a gas?_____
5. What is it called when a gas turns directly into a solid?_____

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