

Name:

Date:

Pd:

Unit 2: Energetics and Gas Laws

Section 3: Phase Diagrams

In this section, I will learn...

1.
2.

- Phase changes are _____ changes that occur when a substance gains or loses energy and its particles _____ or _____.
- The _____, _____, _____, also known as the KMT, is a concept that states that atoms and molecules possess an energy of motion (kinetic energy) that we perceive and measure as temperature.
- Particles of a substance can also be affected by changes in _____, measured in Atmospheres (atm) or Torr.
- Standard Temperature and Pressure (STP) on Earth is ____ °C or 273 K and ____ atm.

Phase Changes:

<i>When a substance goes from a...</i>	<i>To a...</i>	<i>It is called...</i>
Solid	Liquid	
Liquid	Solid	
Solid	Gas	
Gas	Solid	
Liquid	Gas	
Gas	Liquid	

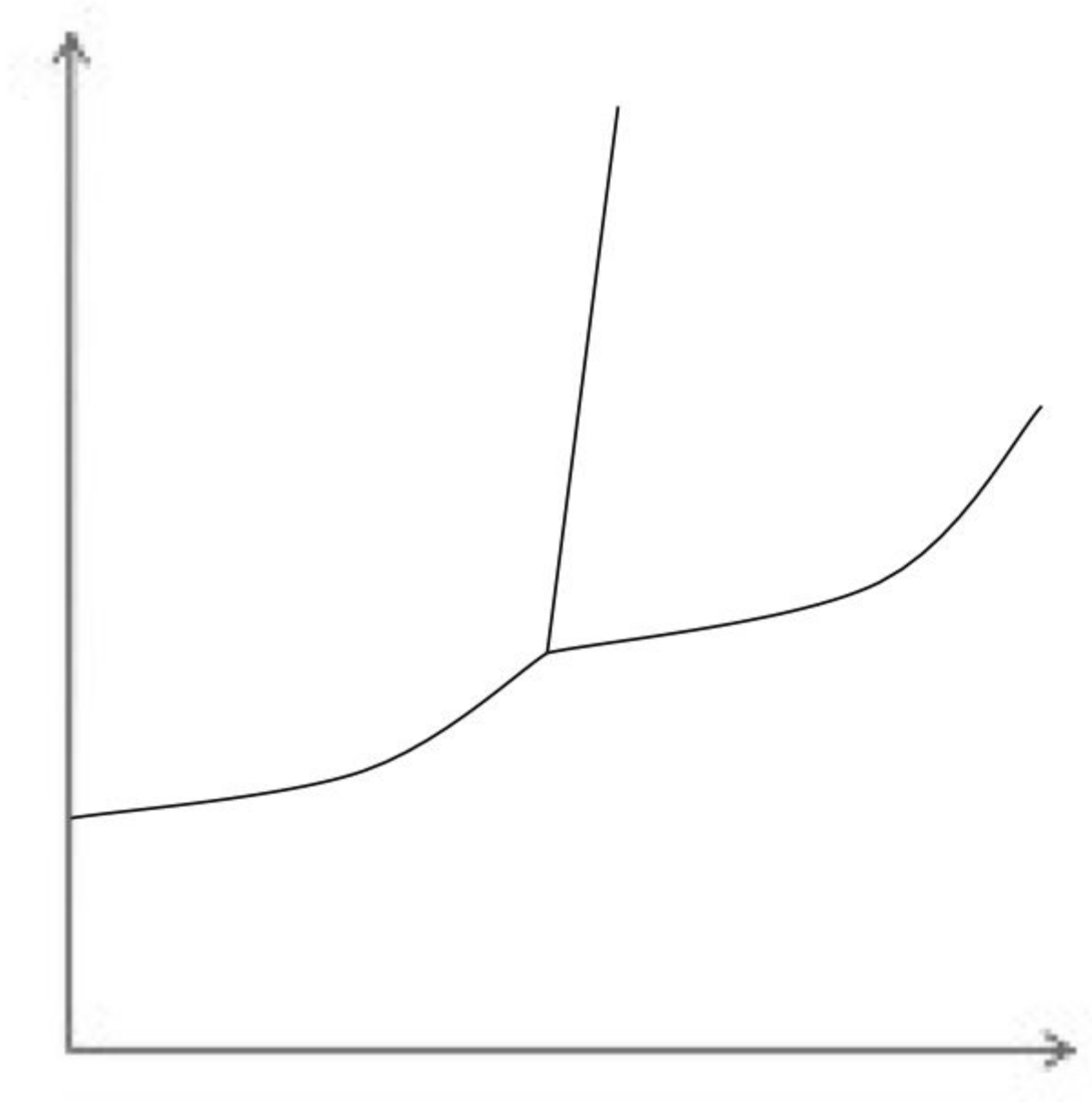
****MEMORIZE THESE!!!!**

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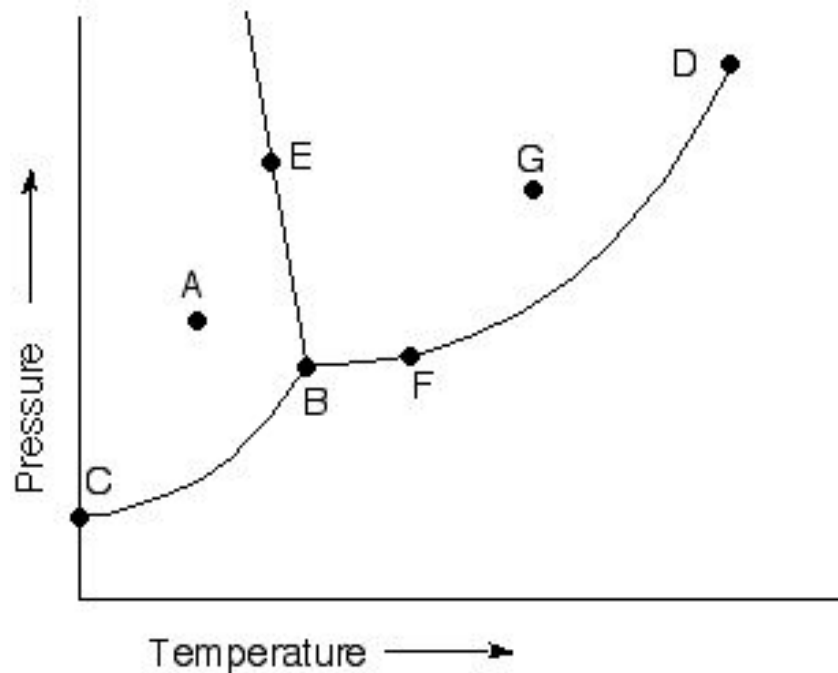
Phase Diagram of a Substance



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1. What state of matter would the substance be in at point A?
2. What state of matter would the substance be in at point G?
3. What phase changes can occur at point F?
4. What phase changes can occur at point E?
5. What is point B called?