

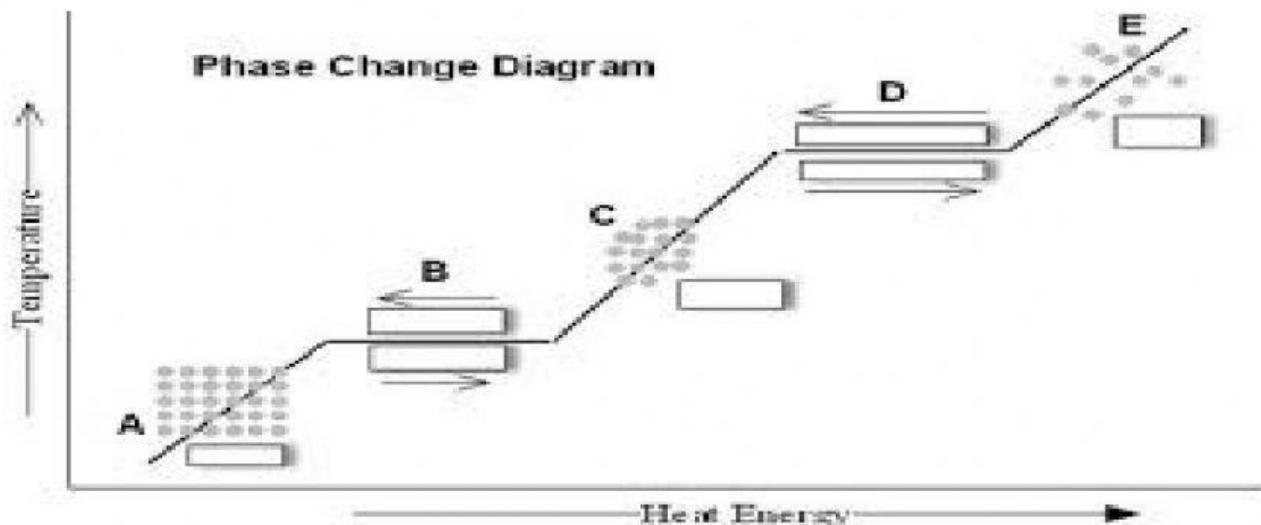
Learning Target: I can ask questions to compare and contrast models depicting the particle arrangement and motion in solids, liquids, and gases. (Proficient)



Phase Change Diagram 101 Video Notes

Video Notes

1. Label and annotate the following phase change diagram below.

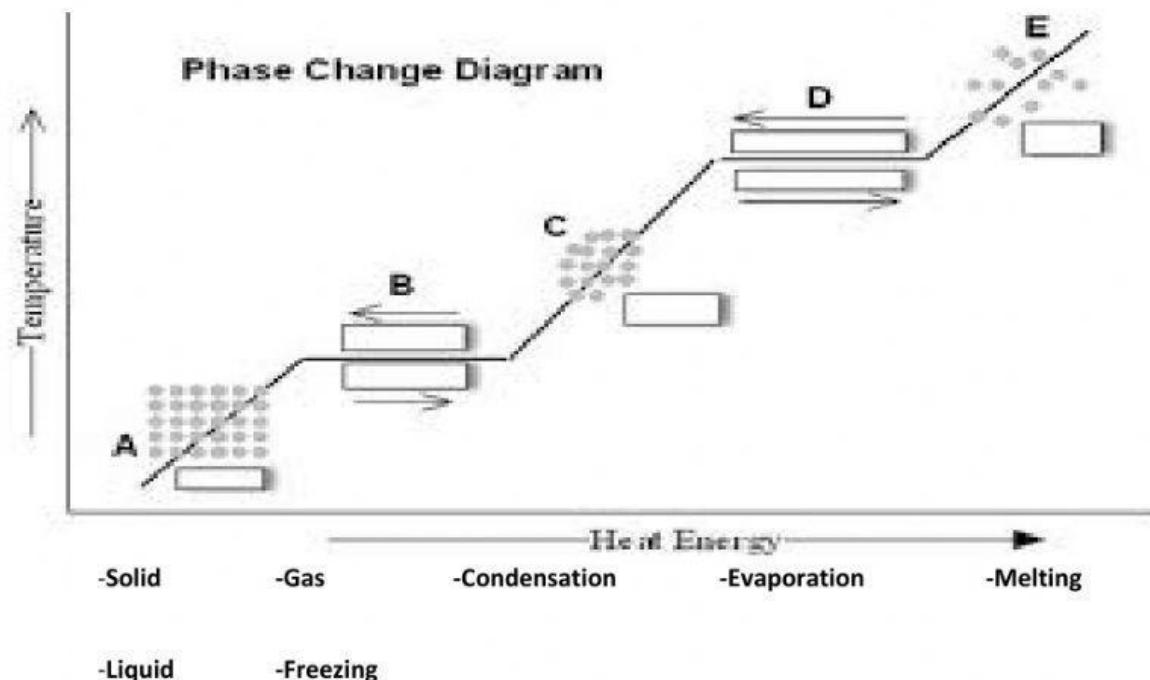


2. As temperature _____
This is a _____
3. What happens to the particles of the solid as it heats up?
4. There is an _____ of kinetic energy, and a _____ of potential energy in the gas as you move up the diagram.

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5. What happens to the particles of the liquid as it heats up?
6. What happens to the particles of the gas as it cools down?
7. There is a _____ of kinetic energy, and an _____ of potential energy in the gas as you move down the diagram.
8. What happens to the particles of the liquid as it cools down?
9. What happens to the particles of the solid as it cools down?

Check for Understanding – Analyze and drag and drop the descriptions to their correct place on the phase change diagram. Answer the questions that follow.



1. As temperature increases heat energy _____
2. What happens to kinetic energy of particles as you go up the diagram?
What happens to kinetic energy of particles as you go down the diagram?
3. What happens to potential energy of particles as you go up the diagram?

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What happens to potential energy of particles as you go down the diagram?

4. What phases of matter are at points A, C, & E? _____
5. What is occurring at point D as you go up the diagram?

Down the diagram?

6. What is occurring at point D as you go up the diagram?

Down the diagram?

7. At what point do a solid and liquid exist at equilibrium on the diagram?

8. At what point do a liquid and gas exist at equilibrium on the diagram?

9. Explain the relationship between temperature and heat energy below:



Scan the QR Code to take the quiz!!!