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Phase Changes Quiz PDF

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Which factors can affect the phase change of a substance? (Select all that apply)

- Temperature
- Pressure
- O Volume
- Purity

What is the process called when a solid turns directly into a gas?

- ◯ Melting
- Freezing
- Sublimation
- Condensation

What is the term for the heat required to convert a liquid into a gas at constant temperature?

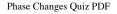
- Latent Heat of Fusion
- Latent Heat of Vaporization
- Specific Heat
- Sensible Heat

What are the characteristics of the critical point in a phase diagram? (Select all that apply)

- It is the highest temperature and pressure at which a liquid and gas can coexist.
- It marks the end of the liquid-gas boundary.
- It indicates the temperature at which a solid becomes a liquid.
- It is unique for each substance.

Which of the following are real-world applications of phase changes? (Select all that apply)

- Refrigeration
- Distillation





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Photosynthesis

Boiling water for cooking

What happens to the temperature of a substance during a phase change?

- ◯ It increases
- It decreases
- It remains constant
- It fluctuates

Which phase change occurs when a gas turns into a liquid?

- Sublimation
- \bigcirc Condensation
- ◯ Deposition
- \bigcirc Vaporization

Which phase change is an endothermic process?

- ◯ Freezing
- \bigcirc Condensation
- Deposition
- ◯ Melting

Provide an example of sublimation and explain the conditions under which it occurs.

Describe how pressure influences the boiling point of a liquid.

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What is the significance of the latent heat of fusion in the melting process?

Explain why the temperature of a substance remains constant during a phase change.

Which processes involve a liquid phase? (Select all that apply)

- Melting
- Freezing
- Vaporization
- Deposition

Which of the following are exothermic phase changes? (Select all that apply)

- Freezing
- Melting
- Condensation
- Vaporization

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What are the characteristics of a phase diagram? (Select all that apply)

- Shows temperature vs. volume
- Displays states of matter
- Includes critical points
- Shows pressure vs. temperature

Discuss the role of impurities in altering the melting and boiling points of a substance.

At what point do all three phases of matter coexist in equilibrium?

- O Boiling Point
- O Melting Point
- Triple Point
- O Critical Point

What effect does increasing pressure have on the boiling point of a liquid?

- ◯ Lowers it
- Raises it
- No effect
- O Depends on the liquid

Which phase change is involved in the formation of frost?

- ◯ Melting
- Freezing
- Deposition
- Evaporation

How does a phase diagram help in understanding the states of matter of a substance?

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