Instructions

Let's explore how particles behave during changes in states of matter! Complete each section to learn more about evaporation, freezing, melting, and condensation.

Match the Term to Its Definition

Evaporation
Particles spread out and turn from liquid to gas

Freezing
Particles slow down and come together in a fixed pattern

Melting
Particles gain energy and move from solid to liquid state

Condensation
Particles lose energy and turn from gas to liquid

Draw and Label

Sketch the arrangement of particles in:

1. Solid:

2. Liquid:

3. Gas:

4. During condensation:

Short Response Questions

1. What happens to particles during evaporation?

2. Why do particles move slower when freezing?

3. How does melting change the arrangement of particles?

4. What process occurs when particles in the air slow down and come together?

Long Response Question

Explain how the arrangement of particles in a solid, liquid, and gas affects the properties of a substance.

Fun Activity!

Imagine you are a water particle. Describe your journey through the water cycle, including changes in your state of matter.