

# Instructional Context

This Kahoot! is a review assessment on the Particle Model taught in the Grade 7 Science Alberta Curriculum.

In the previous session we focused on learning the 4 main concepts of the particle model, including the processes of specific phase changes and how to identify them.

This assessment focussed on comprehension and retention from the previous session.

## Learning Objectives

- understanding particle model theory
- defining terminology of phase changes
- application of phase change in real world events
- predicting phase change with parameter manipulation

## Instructional Design Notes

This Kahoot! was played in a one-on-one tutoring session. This Kahoot! assessment was used as a formative review tool at the start of a tutoring session following the introduction of particle model concepts. The interactive format allowed the student to recall terminology and phase-change processes while receiving immediate feedback. The quiz format also helped identify and clarify misconceptions before progressing to more complex applications of particle theory.



Kahoot

## The Particle Model: Solids, Liquids & Gases

Explore the fascinating world of particles! This quiz will test your knowledge on the states of matter, how particles behave in solids, liquids, and gases, and the energy changes involved in phase transitions like melting, sublimation, and condensation.

### Questions (18)

#### 1 - Quiz

What is the main idea of the particle model?

- ▲ Matter is continuous and has no gaps
- ◆ Matter is created by temperature
- Matter is made of particles ✓
- Matter only exists as solids

#### 2 - Quiz

Which statement about particles is TRUE?

- ▲ Particles move only in gases
- ◆ Particles are always moving ✓
- Particles only move when heated
- Particles stop moving at 0°C

#### 3 - Quiz

Which factor MOST directly affects how fast particles move?

- ▲ Colour
- ◆ Shape
- Volume
- Temperature ✓

#### 4 - Quiz

Which state of matter has the STRONGEST particle attraction?

- ▲ Gas
- ◆ Liquid
- Solid ✓
- Plasma

#### 5 - Quiz

In which state do particles have the MOST space between them?

- ▲ Liquid
- ◆ Gas ✓
- Plasma
- Solid

#### 6 - Quiz

Why can gases be easily compressed?

- ▲ Gas particles are heavy
- ◆ Gas particles have weak attraction and lots of space ✓
- Gas particles are large
- Gas particles stop moving

7 - Quiz

What phase change happens when a solid turns into a liquid?

Sublimation      Melting  
 Freezing      Condensation

8 - Quiz

Which phase change requires ADDING energy?

Evaporation      Deposition  
 Freezing      Condensation

9 - Quiz

Which list contains ONLY phase changes that RELEASE energy?

Melting, evaporation, sublimation      Condensation, melting, sublimation  
 Evaporation, freezing, melting      Freezing, condensation, deposition

10 - Quiz

When energy is ADDED to particles, what happens?

Attraction increases, movement increases      Attraction and movement stay the same  
 Attraction decreases, movement increases      Attraction increases, movement decreases

11 - Quiz

What is sublimation?

Liquid → gas      Gas → solid  
 Gas → liquid      Solid → gas

12 - Quiz

What is deposition?

Solid → liquid      Gas → solid  
 Liquid → solid      Gas → liquid

13 - Quiz

Which phase change skips the liquid state when ADDING energy?

Freezing      Evaporation  
 Sublimation      Condensation

14 - Quiz

Dew forming on grass in the morning is an example of:

Freezing      Evaporation  
 Sublimation      Condensation

## 15 - Quiz

Dry ice disappearing without becoming liquid is an example of:

Condensation
  Evaporation
  Sublimation
  Deposition

## 16 - Quiz

Frost forming on a car windshield overnight is an example of:

Freezing
  Condensation
  Deposition
  Sublimation

## 17 - Quiz

Puddles drying after it rains is an example of:

Evaporation
  Freezing
  Melting
  Condensation

## 18 - Quiz

During condensation, particle attraction \_\_\_\_, movement \_\_\_\_, and energy \_\_\_\_:

Attraction increases, movement and energy decrease
  Attraction decreases, movement and energy increases
  All decrease
  All increase

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