

Introduction

This worksheet is designed to assess students' understanding of the basic properties of solids, liquids, and gases. It is intended for 8-10 year old students and aligns with the learning objectives of identifying and describing the basic properties of solids, liquids, and gases, explaining the differences between states of matter, and recognizing and providing examples of everyday objects in each state of matter.

Section 1: Multiple Choice Questions

Choose the correct answer for each question:

1. What is the main characteristic that distinguishes a solid from a liquid?
- A) Shape
 - B) Volume
 - C) Weight
 - D) Color

2. Which of the following is an example of a gas?
- A) Water
 - B) Air
 - C) Chair
 - D) Book

3. What happens to the particles of a substance when it changes from a solid to a liquid?
- A) They get closer together
 - B) They stay the same distance apart
 - C) They move farther apart
 - D) They disappear

Page

Section 2: Short Answer Questions


Answer each question in complete sentences:

1. Describe the main differences between a solid and a liquid. Provide an example of each.

2. Explain why a gas can fill a container, but a solid cannot.

Section 3: Diagram Labeling

Label the different parts of the diagram below:

Diagram of Solid, Liquid, and Gas

Section 4: Sorting Activity

Sort the following objects into three categories: solid, liquid, and gas:

- Water
- Air
- Chair
- Book
- Oil
- Gasoline
- Rock
- Ice

Solid	Liquid	Gas

Section 5: Matching Game

Match the following words with their definitions:

1. Solid
2. Liquid
3. Gas
4. Particle
5. Container

- A) A state of matter that has a fixed shape and volume
- B) A state of matter that takes the shape of its container and has a fixed volume
- C) A state of matter that has neither a fixed shape nor a fixed volume
- D) A small unit of matter that makes up a substance
- E) A vessel that holds a substance

Word	Definition

Section 6: Word Search

Find the following words related to the properties of matter:

- Solid
- Liquid
- Gas
- Particle
- Container
- Shape
- Volume

[Word Search Puzzle]

Section 7: Critical Thinking Questions

Answer each question in complete sentences:

1. What would happen if you were to heat a solid until it turned into a liquid?

2. How does the properties of a gas differ from that of a liquid?

Section 8: Real-World Applications

Answer each question in complete sentences:

1. Provide an example of a real-world situation where the properties of solids, liquids, and gases are important.

2. How do the properties of matter affect our daily lives?

Section 9: Review and Reflection

Review what you have learned about the properties of matter and reflect on what you would like to learn more about:

Section 10: Assessment Rubric

The following points will be awarded for each section:

- Multiple choice questions: 20 points
- Short answer questions: 30 points
- Diagram labeling: 20 points
- Sorting activity: 20 points
- Matching game: 10 points
- Word search: 10 points
- Critical thinking questions: 20 points
- Real-world applications: 20 points
- Review and reflection: 10 points

Total: 100 points

