

NAME: _____

Properties of Matter Science Quiz Outline

Unit: Properties of Matter

Date: Thursday, September 25th

This quiz will check your understanding of the properties of matter. You will answer questions about what matter is, the three states of matter, what matter is made up of, and how particles behave in solids, liquids, and gases. You will also be asked about changes of state and show what you know with a diagram of particles. Below are practice questions to help you along with the answers to those questions in the next section.

Part A: Multiple Choice (Circle the best answer)

1. What is matter?
 - a) Anything that has weight but not space
 - b) Anything that has mass and takes up space
 - c) Only liquids and solids
 - d) Energy like light and sound
2. Which of the following is NOT a state of matter?
 - a) Solid
 - b) Liquid
 - c) Gas
 - d) Energy
3. What are all things made up of?
 - a) Cells
 - b) Atoms and Molecules
 - c) Dust

Part B: Short Answer

4. Describe how the **particles are arranged** in a solid, liquid, and gas.

• Solid: _____

• Liquid: _____

• Gas: _____

5. What do we call the process when a solid changes into a liquid?

6. What happens to the particles when matter is heated?

Part C: Diagram

7. Draw and label the particles of a **solid, liquid, and gas** in the boxes below.
(Small circles for particles - show how they are arranged.)

Solid:



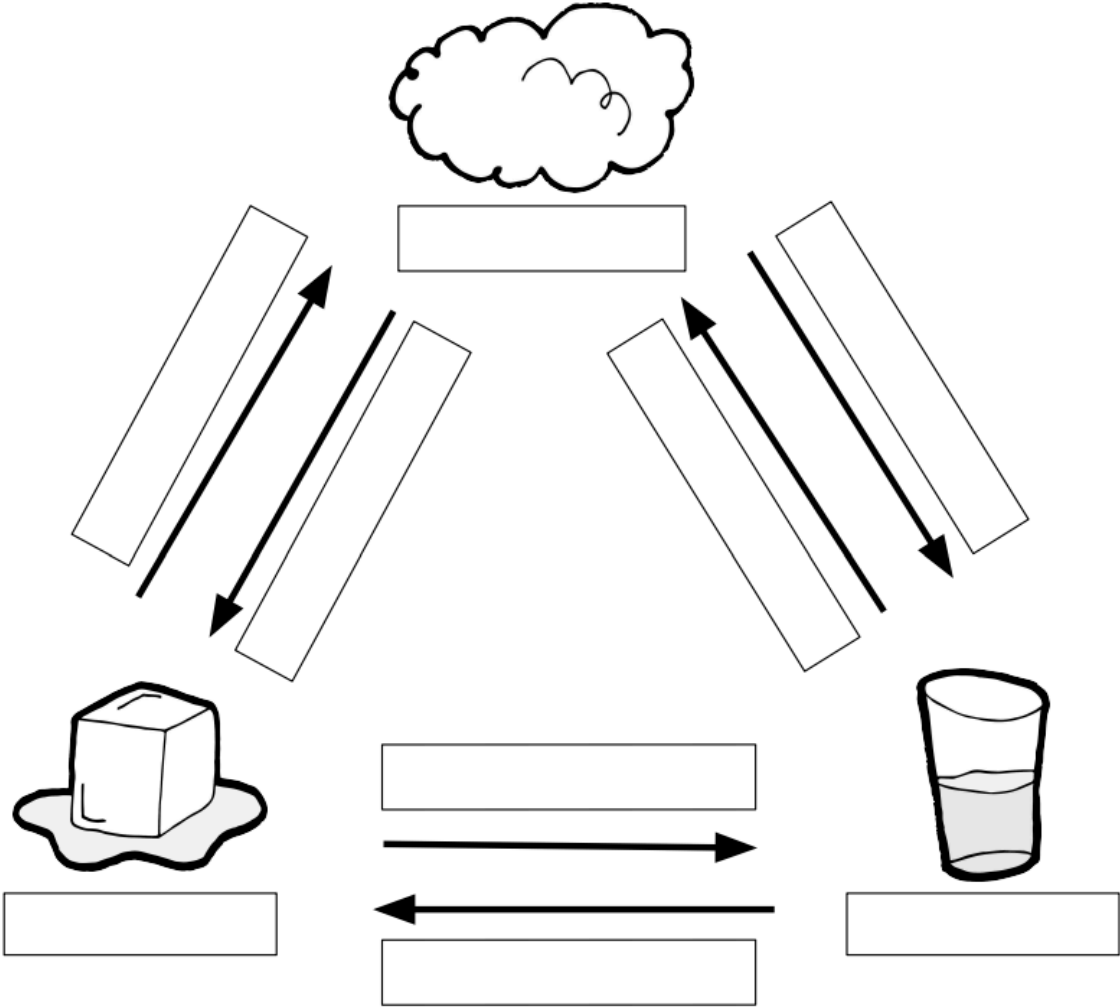
Liquid:



Gas:



Part D: Label



Answer Key

Part A: Multiple Choice

1. b) Anything that has mass and takes up space
 2. d) Energy
 3. d) Atoms and molecules
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Part B: Short Answer

4.
 - Solid: Particles are tightly packed, fixed in place, and only vibrate.
 - Liquid: Particles are close together but can slide past each other.
 - Gas: Particles are far apart and move freely in all directions.
 5. Melting
 6. The particles move faster and spread farther apart.
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Part C: Diagrams

8.



Part D: Label

