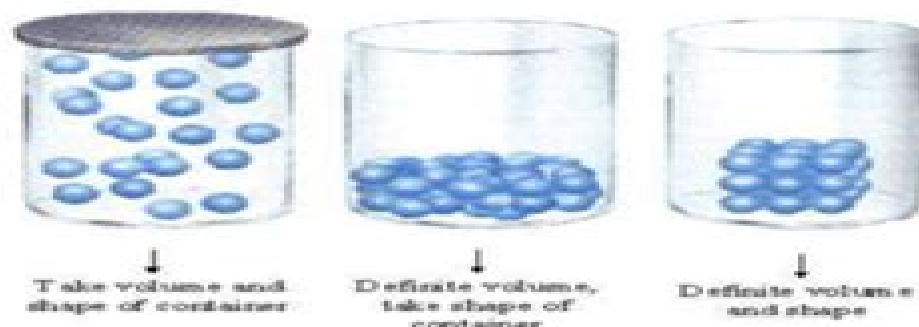


## STATES OF MATTER TEST – STUDY GUIDE

1. **Matter** is anything that has mass and volume . **Volume** means the amount of space it takes up.
2. **Properties of matter** examples: color, taste, texture, odor, hardness, density
3. There are **3 main states or phases** of matter on Earth:

### **States of matter**



- A. gas  
A. **Gas:** very loosely packed molecules, no definite shape or volume
- B. liquid  
B. **Liquid:** loosely packed molecules, definite volume, takes shape of container
- C. solid  
C. **Solid:** tightly packed molecules, definite shape and volume

**mass:** how much there is of something; usually measured by weighing in grams on Earth

**property:** a characteristic of matter; for example, shape, texture, size, color and what matter is made of. The properties of a playground ball are it is spherical, red, has a rough surface, is made of rubber, bounces, is hollow, and has a circumference of 15 inches.

**gram:** a small metric unit used to measure mass; objects such as feathers, coins, and paper clips are measured in grams. **kilogram:** a thousand grams; people, large animals, boulders, cars, etc.

**atom:** the smallest bit of matter

**Condensation:** when water vapor is cooled and turned into a liquid

**Evaporation:** when a liquid turns into a gas

**Temperature** changes a solid into a liquid. Think of the sun melting an ice cube (solid) to water (liquid).

**Mixture:** two or more things combined together **Solution-** a mixture with all parts evenly distributed

**Control:** part of experiment that is not changed so scientists can use it for comparison

**Variable:** part of the experiment that is purposely changed to find out what happens as a result

# States Of Matter Chapter Test

**Arshad Iqbal**



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