

Chapter 1 Study Guide

N.B. p. _____

Name: _____

Single/Science

Define each:

1. Matter—
2. Mass—
3. Weight—
4. Volume—

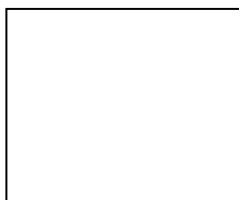
State the formula for calculating *volume of a cube*:

Calculate volume: L = 25 cm, W = 5 cm , H = 5 cm

5. Complete:

Term	Definition	Examples
Atom		
Molecule		
Element		
Compound		

6. List & draw 4 states of matter. Also describe the motion of the atoms that make up each:



7. State whether each is an element, compound, or molecule (you may have multiple answers for each:

O₂ _____

CO₂ _____

Ca _____

NaOH _____

carbon dioxide _____

1 carbon atom _____

2 oxygen atoms bonded together _____

8. List 3 non-examples of matter.

9. A _____ has no definite shape or volume.

10. A _____ has definite shape & volume.

11. A _____ has volume but no definite shape.

12. Draw & explain how a simple distillation apparatus works.

13. Circle the pure substances:

Lemon Ade

Table salt (NaCl)

Soil

Cereal with milk

Iron

Oxygen

14. Define homogenous mixture—

15. Define heterogeneous mixture

16. State whether each is homogenous or heterogeneous:

_____ Orange juice	_____ plain milk
_____ Soda drink	_____ Chex Mix

17. As temperature increases, gas pressure _____.

18. Would you weigh more or less on the moon? Please explain...