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r. the number of protons in an atom's nucleus

container

s. the most common state of matter in the universe

t. state in which matter flows as it takes the shape of a

Matter

Part A. Vocabulary Review

Directions: Match the terms in Column I with the descriptions in Column II. Write the letter of the correct description in the blank at the left

Column I	Column II
1. matter	a. atoms of an element with different atomic names but the same atomic number
2. element 3. atom	b. form of matter containing only one type of atom
4. protons	c. causes of iron changing to rust when it reacts with water
5. neutrons	d. the number of protons and neutrons in an atom's nucleus
6. electrons	e. anything that has mass and takes up space
7. isotopes	f. particles in an atom's nucleus that do not have an
8. solution	electrical charge
9. compound	g. a building block of matter
10. mixture	h. other name for homogenous mixture
11. chemical properties	i. mass divided by volume
12. mass number	j. an electrically charged atom
13. ion	k. density and state of matter
14. density	l. water
15. physical properties	m. positively charged particles inside the nucleus of an atom
16. solid	n. negatively charged particles outside the nucleus of an
17. plasma	atom
18. gas	o. sweetened tea
19. liquid	p. state in which a substance completely fills its container
20. atomic number	 q. state in which atoms are strongly attracted and do not change position

Class

Chapter Review (continued)

Part B. Concept Review

Directions: Answer the following questions using complete sentences.

- 1. How do you measure the density of an object?
- 2. What are two ways atoms can combine to form compounds?
- 3. Compare and contrast compounds and mixtures.

4. Carbon-12 has a mass number of 12 and an atomic number of 6. Tell which of the following atoms is an isotope of carbon-12. Explain your answer.

Atom A: 12 protons, 12 neutrons, 12 electrons

Atom B: 6 protons, 8 neutrons, 6 electrons

Directions: *Identify each of the properties as either a chemical property or a physical property. Write* **C** *by chemical properties and* **P** *by physical properties.*

- _____ 5. the sharing of electrons by elements to form compounds
 - ____ 6. the density of a substance
 - _ 7. the solid state of water
 - __ 8. the effect of water on iron
- **9.** the size of a salt crystal
- _____ 10. the attraction of two ions