

Name _____

Date _____

Period _____

6-1 AND 6-2 REVIEW

1. Vertical columns on the Periodic Table are known as _____

2. Most elements on the Periodic Table are _____

3. What does **malleable** mean?

- a. elements that have properties of both metals and nonmetals
- b. can be drawn into thin wires
- c. can be hammered into other materials
- d. an electron that is found in the outer most shell of an electron

4. Horizontal rows on the Periodic Table are called _____

5. List 4 characteristics of metals

6. Where are metals located on the Periodic Table? _____

7. An element that can be drawn into thin wires is said to be _____

Directions: Use the Periodic Table for questions 8-11.

8. What is the name of group/family 2?

- a. alkaline earth metals
- b. halogens
- c. noble gases
- d. alkali metals

9. What is the name of group/family 17?

- a. transition metals
- b. halogens
- c. noble gases
- d. alkaline earth metals

10. What family is Potassium in?

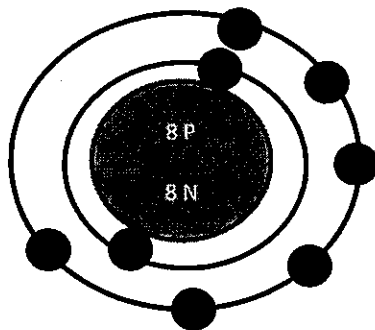
- a. transition metals
- b. halogens
- c. alkaline earth metals
- d. noble gases

11. What do all periods on the periodic table have in common?
- The same number of energy levels/shells
 - The same number of protons
 - The same number of neutrons
 - The same number of valence electrons

Directions: Use the diagram below and your periodic table to answer questions 12-13.

12.0111	-4
C	+2
	+4
6	
2-4	

12. How many energy levels does **Carbon** have? _____
13. How many valence electrons does **Carbon** have? _____
14. What is the **name** of the family that **Argon** is located in? _____
15. Which element is found in family 2, period 3? _____
16. Which element has 2 energy levels and 7 valence electrons? _____
17. What element is shown below? _____



18. What is the "3" in $3\text{H}_2\text{O}$ called? _____
 What is the "2" in $3\text{H}_2\text{O}$ called? _____
19. How many atoms of each element are in $3\text{H}_2\text{O}$?

Answer: _____

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3-7 What is the periodic table?

Lesson Review

Match each term in **Column A** with its definition in **Column B**. Write the letters of the correct answers in the spaces provided.

Column A

- _____ 1. Elements in the modern periodic table are arranged in increasing order of this.
- _____ 2. Chemical symbols for some elements come from this language.
- _____ 3. first person to create a periodic table
- _____ 4. horizontal row of elements in the periodic table
- _____ 5. repeating pattern
- _____ 6. vertical column of elements in the periodic table
- _____ 7. The first letter of a chemical symbol is always this.

Column B

- a. Latin
- b. periodic
- c. group
- d. atomic number
- e. period
- f. capitalized
- g. Mendeleev

Skill Challenge

Skills: identifying, organizing

Complete the table below by filling in the correct symbol, period, or group of each element.

CHEMICAL SYMBOLS		
Symbol	Period	Group
H		1
Li	2	
	4	4
Au	6	
Cu		11
	4	1
	5	1
Fe		8
W	6	
	2	16

3-8 What are metals and nonmetals?

Lesson Review

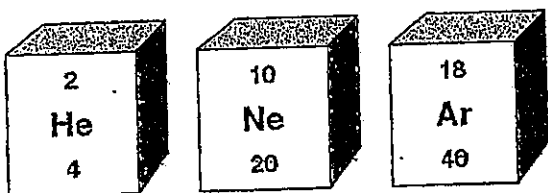
Decide whether each item is likely to describe a metal, a nonmetal, or both. Write *M* for metal, *N* for nonmetal, or *B* for both in the spaces provided.

- _____ 1. may be an element
- _____ 2. can be hammered into different shapes
- _____ 3. can carry an electrical current
- _____ 4. is located to the right side of the zigzag line on the periodic table
- _____ 5. may be a solid
- _____ 6. can be drawn into thin wires
- _____ 7. has shiny luster
- _____ 8. is a poor conductor of heat

Skill Challenge

Skills: interpreting a diagram, identifying

The diagram below shows three squares from the periodic table. Refer to the diagram as you answer the questions.



1. What is the name of the middle element? _____
2. How many electrons does each element have? _____
3. How many electrons are in the first energy level for each element? _____
4. How many electrons are in the second energy level for each element? _____
5. How many electrons are in the third energy level for each element? _____
6. What do all three elements have in common? _____