

Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

# 4 ATOMIC STRUCTURE

## Vocabulary Review

Match the correct vocabulary term to each numbered statement. Write the letter of the correct term on the line.

Column A

- defined as  $\frac{1}{12}$  the mass of a carbon-12 atom
- central core of an atom, which contains most of the atom's mass
- a vertical column of elements in the periodic table
- subatomic particles with no charge
- positively charged subatomic particles
- the smallest particle of an element that retains its identity in a chemical reaction
- the number of protons in the nucleus of an element
- negatively charged subatomic particles
- atoms with the same number of protons but different numbers of neutrons
- an arrangement of elements according to similarities in their properties

Column B

- isotopes
- neutrons
- atom
- electrons
- atomic number
- atomic mass unit
- group
- nucleus
- periodic table
- protons

f  
h  
g  
b  
j  
c  
e  
d  
a  
i

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# 4 ATOMIC STRUCTURE

## Chapter Quiz

Fill in the word(s) that will make each statement true.

- Dalton's atomic theory included the idea that the atoms of different elements can chemically combine in 1 ratios.
- An atom is the smallest particle of an element that retains its identity in a 2.
- 3 are subatomic particles with a negative charge.
- The nucleus of an atom is composed of 4 and protons.
- A neutron has no charge, but its mass is almost the same as that of a 5.
- The number of protons in an atom is called its 6 number.
- There are 10 neutrons and 7 electrons in an atom of oxygen-18.
- Isotopes of an element have different numbers of neutrons. They also have different 8 numbers.
- The total number of protons, neutrons, and electrons in an atom of silver-109 (atomic number 47) is 9.
- The mass number of an element with 14 electrons and 16 neutrons is 10.
- The horizontal rows of the periodic table are called 11.
- The elements in the periodic table are listed in order of increasing 12.

1. whole #  
2. Chem reac (or substance)  
3. electrons  
4. neutrons  
5. proton  
6. atomic  
7. 8  
8. mass, atm mass  
9. 156  
10. 30  
11. periods  
12. atm #  
or  
protons  
or  
mass

6

12