CHAPTER 1 Subatomic Particles

BLM 1-13

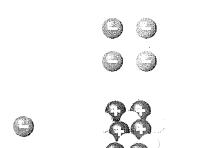
Goal • Demonstrate your knowledge of subatomic particles.

What to Do

1. Complete the chart below to show the location and electric charge of the three subatomic particles.

Particle	Location in Atom	Electric Charge		
Electron				
Proton				
Neutron				

Use the diagram of an atom to answer the following questions.



- 2. Label the parts of the atom. Include the following labels: proton, electron, neutron, energy level, nucleus.
- 3. (a) What is the electric charge of this nucleus?
 - (b) What is the electric charge of this atom?

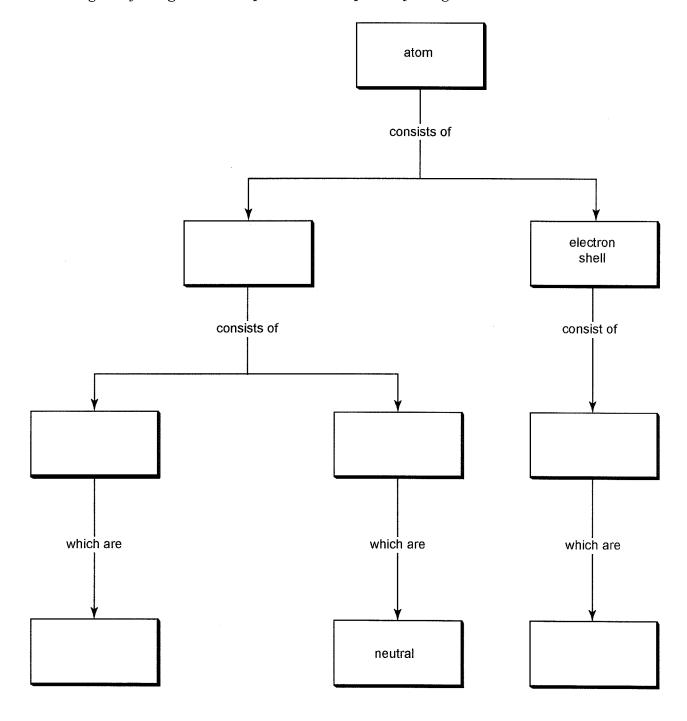
CHAPTER 1 Parts of the Atom Concept Map

BLM 1-12

Goal • Complete concept map that shows the relationship among the parts of the atom.

What to Do

Complete this concept map for the parts of an atom. Use each of the following terms electron, negatively charged, neutron, proton, nucleus, positively charged



Section 4.1

Use with textbook pages 168-180.

The atom and the subatomic particles

1. Use the following vocabulary words to label the diagram.

Vocabulary		
common ion charge	symbol	
other ion charge	atomic number	
name	average atomic mass	

	22 AL (e)	
1N1	7; 3+ (f)	
(c)	Titanium	=
(d)	47.9	

2. Examine the periodic table for the element below and complete the blanks.

35 - Br Br Bronine 79.9	
(a) atomic number	(b) average atomic mass
(c) ion charge	(d) number of protons
(e) name of element	(f) number of neutrons

3. Complete the following table for the different atoms and ions. The first two rows have been completed to help you.

Element Name	Atomic Number	lon Charge	Number of Protons	Number of Electrons	Number of Neutrons
potassium	19	1+	19	18	20
phosphorus	15	0	15	15	16
	3	0.			
		2+	20		
nitrogen		3–			
	5	0	1 11 11 11 11 11 11 11 11 11 11 11 11 1		
argon				18	-
:	13			10	
chlorine		0			
		······································	11	10	