

**ACTIVITY** ■ Atoms: Building Blocks of Matter**Atomic Structure**

You can become more familiar with the atomic structure of some common substances by completing the chart below. For each substance, you have been given enough information to fill in all the blanks.

Substance	Symbol	Atomic Number	Mass Number	Number of Protons	Number of Neutrons	Number of Electrons
Helium	He	2	4			
Magnesium	Mg	12			12	
Zinc	Zn	30	65			
Bromine	Br		80			35
Aluminum	Al			13	14	
Uranium	U				146	92
Sodium	Na	11			12	
Krypton	Kr				48	36
Calcium	Ca		40	20		
Silver	Ag			47	61	

## ■ Subatomic Particles: Reviewing the Main Ideas

Complete the following chart:

Particle	Location	Mass (amu)	Charge
Proton			
Electron			
Neutron			

## ■ Find the Missing Numbers

Use your knowledge of atomic number and mass number to fill in the missing numbers:

Element	Atomic #	Mass #	HOW MANY?		
			Protons	Neutrons	Electrons
Iron	26	56			
Sulfur	16	32			
Carbon	6			6	
Fluorine		19	9		
Calcium	20	40			
Nitrogen		14			7
Copper	29			35	
Sodium		23	11		
Mercury		201			80
Silver				61	47