

# Atoms: Protons, Neutrons & Electrons Worksheets



## Atoms: Protons, Neutrons, and Electrons

Atoms are the smallest unit of matter that still retain their chemical properties. They contain positive protons and neutral neutrons in the nucleus, the center, surrounded by negative electrons that occupy specific energy levels. The number of protons in an atom determines the type of atom. The number of electrons explains the reactivity of an atom, influencing stability and charge. Understanding atoms is important in understanding matter and how it interacts.

### Parts of an Atom

Fill in the Table According to each Particle

Particle	Name	Charge	Location

### Unknown Atom

Fill in the Table According to Unknown Atom

Atom Name	
Atomic Number	
Proton Number	
Neutron Number	
Electron Number	

### Atoms on the Periodic Table

Use the Periodic Table to Answer the Questions about Atoms

What is the unknown atom's group number?	Look at the periodic table.
What is the unknown atom's family number?	Look at the periodic table.

### Elements on the Periodic Table

Fill in the Parts on the Elemental Square

Practice the Structure of the Elements on the Periodic Table

20

Ca

Calcium

40.078

- Number of Protons (and Electrons)  
 Element Abbreviation  
 Period Element Name  
 Equal to Protons + Neutrons

How to Find Protons? → Look at the Atomic Number

How to Find Electrons? → Look at the Atomic Number

How to Find Neutrons? → Take Mass # - Atomic #

Mass # \_\_\_\_\_ Atomic # \_\_\_\_\_ Neutrons # \_\_\_\_\_

### Elemental Square

Fill in the Elemental Square for Each Atom

12

Mg

Magnesium

24.305

Atom's Name  
 Atomic #  
 Proton #  
 Electron #  
 Neutron #

27

Co

Cobalt

58.933

Atom's Name  
 Atomic #  
 Proton #  
 Electron #  
 Neutron #

31

Ga

Gallium

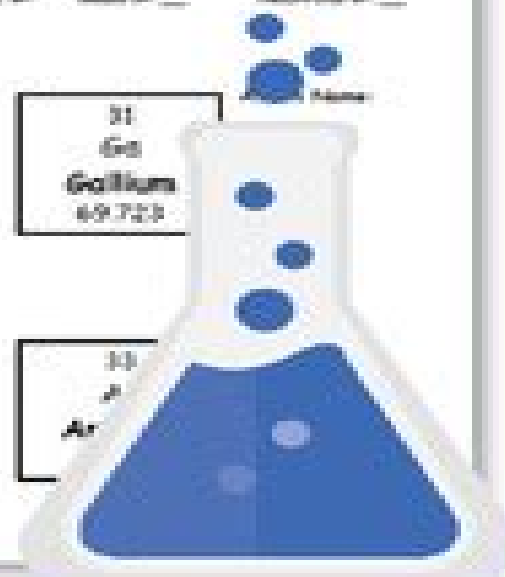
69.723

33

As

Arsenic

74.922



# Electrons In Atoms Worksheet Core Teaching Resources

**George Graybill**



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