

# Atoms: Protons, Neutrons & Electrons Worksheets



## Atoms: Protons, Neutrons, and Electrons

At the smallest scale of matter that still retains chemical properties, the nucleus contains positive protons and neutral neutrons. Surrounding the nucleus is a cloud of 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 the structure of 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 element's atomic number?	Look at the top left of the element's box.
What is the element's group number?	Look at the top of the element's box.
What is the element's family name?	Look at the bottom of the element's box.

Elements on the Periodic Table:

Fill in the Parts on the Element's 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. Atomic # \_\_\_\_\_ Protons # \_\_\_\_\_

How to Find Electrons? → Look at the Atomic Number. Atomic # \_\_\_\_\_ Electrons # \_\_\_\_\_

How to Find Neutrons? → Take Mass # - Atomic #. Mass # \_\_\_\_\_ Neutrons # \_\_\_\_\_

Elemental Square:

Fill in the Elemental Square for Each Atom:

12

**Mg**

**Magnesium**

24.305

Atom's Name: \_\_\_\_\_

Atomic # \_\_\_\_\_

Proton # \_\_\_\_\_

Electron # \_\_\_\_\_

Neutron # \_\_\_\_\_

31

**Ga**

**Gallium**

69.723

Atom's Name: \_\_\_\_\_

Atomic # \_\_\_\_\_

Proton # \_\_\_\_\_

Electron # \_\_\_\_\_

Neutron # \_\_\_\_\_

27

**Co**

**Cobalt**

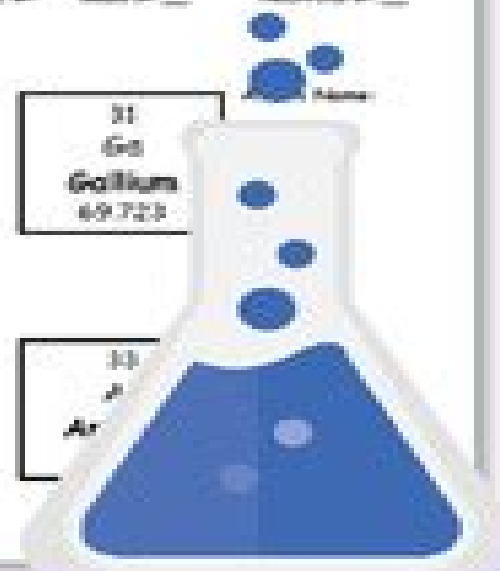
58.933

33

**As**

**Arsenic**

74.922



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**D Siedentop**



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