

The Atom

What is an atom?

- an atom is the _____ part of an element that has all of the element's _____
- for example, atoms of _____ are not the same as atoms of _____. This is why a piece of copper has different _____ than a piece of iron
- atoms are made of smaller particles called _____ particles; protons, electrons, and neutrons

Properties of Subatomic Particles

Name	Symbol	Relative Mass	Electric Charge	Location

The Importance of Protons

- protons are especially important because the number of protons in an atom determines what _____ it is
- any atom with _____ proton is always _____
- any atom with _____ protons is always _____

Determining the Number of Subatomic Particles in Each Atom

Use your periodic table to complete the table below.

Element Name	Atomic Number	Atomic Mass	Number of Protons	Number of Electrons	Number of Neutrons
Aluminum					
Argon					
	4				
			5		
		40			
Carbon					
					18
		19			
				2	
					0
	3				
			12		
Neon					
	7				
					8
		31			
Sodium					