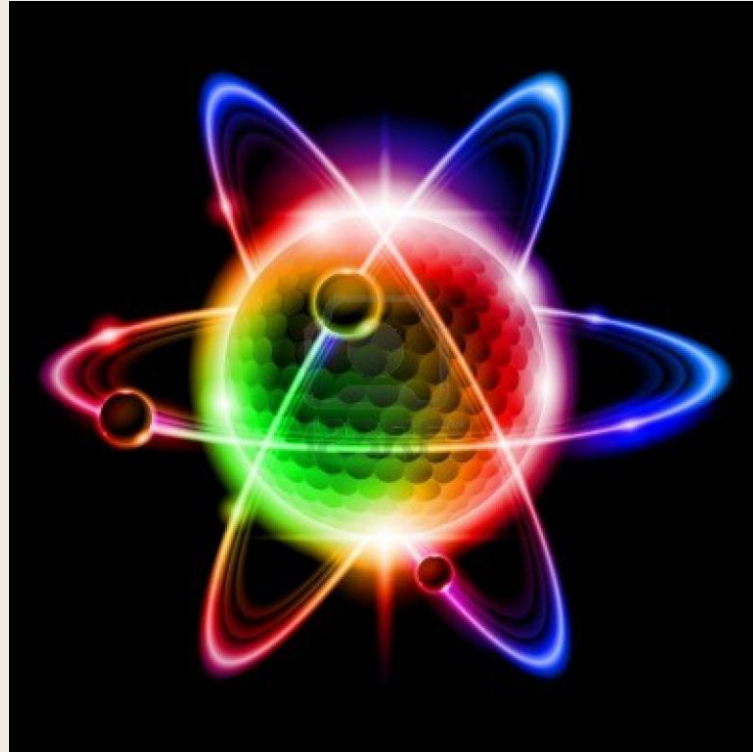


7P2A.1

Develop and use simple atomic models to illustrate the components of elements (including the relative position and charge of protons, neutrons, and electrons)

What is an atom?



What makes up an atom?

An atom is...

- Atoms are the smallest part of an element that has the chemical properties of the element.
- A single atom has mass and takes up space.

Atoms are composed of...

- Subatomic Particles called:
 - *Protons: Positive Charge*
 - *Neutrons: No Charge*
 - *Electrons: Negative Charge*
- Protons and neutrons have about the same mass
- Protons and neutrons are tightly bound in a tiny *nucleus*
- The *Nucleus* is located in the center of the atom with the electrons moving in random patterns in the space around the nucleus

Example of an Atomic Model

