

Science, Grade: 8
Benchmark #: 2A.1.1

Mastery Check _____

State Language:

The student understands atoms, the fundamental organizational unit of matter, are composed of subatomic particles. Chemists are primarily interested in the protons, electrons, and neutrons found in the atom.

Student Friendly Language:

I will understand that matter is made of atoms and their subatomic particles.

Concept (Students will know):

That an element's properties are determined by the subatomic particles of the element's atoms.

Skills (Students will do):

Understand

DOK Level:

1

Big Ideas:

The type of atoms determines the composition of all matter.

Essential Questions:

What are the three subatomic particles?

A dollar represents a specific amount of gold in the USA mint. A neutral atom of gold (Au) has a mass number of 197 and has 118 neutrons. How many electrons does this gold atom have?

- A) 79 electrons
- B) 118 electrons
- C) 197 electrons
- D) 315 electrons

Core Materials

Supplemental Materials: