

Worksheet for Chapter 4 on Atoms.

There is a fun activity here <http://www.sciencegeek.net/Chemistry/taters/Unit1Numbers2.htm> on atomic number, mass number, protons, neutrons, and electrons.

1. Which scientist discovered the electron?
2. Which scientist said atoms can combine to form compounds?
3. Which scientist discovered the nucleus?
4. Which subatomic particles are in the nucleus of the atom?
5. Which subatomic particle has a negative charge?
6. Write atomic notation for silicon-29 and iodine-127. How many neutrons are in each?
7. True or False? Isotopes are atoms of the same element with different masses.
8. True or False? Isotopes have the same number of neutrons.
9. How many atoms are in $\text{Al}_2(\text{SO}_4)_3$?
10. Fill in this table:

isotope	mass number	protons	electrons	neutrons
calcium-42				
bromine-81				
argon-40				

Answers

1. Thomson
2. Dalton
3. Rutherford
4. Protons and neutrons
5. Electron
6. $\frac{29}{14}\text{Si}$ has 15 neutrons and $\frac{127}{53}\text{I}$ has 74 neutrons
7. True
8. False
9. 17

isotope	mass number	protons	electrons	neutrons
calcium-42	42	20	20	22
bromine-81	81	35	35	46
argon-40	40	18	18	22

10.