

Atomic theory test review

Atomic theory

- Know how Democritus, Dalton, and Rutherford contributed to the atomic theory
- Know how the atomic theory was developed by many scientists and not just one person
- Know how the understanding of the atom changed as technology changed
- What did the gold foil experiment help show
- Know the three parts of the atom, where they are located, and their charge

Atomic number and mass

- Know what the atomic number tells us
- What happens if I change the number of protons in an atom?
- Be able to identify atoms based off of the number of protons
- Be able to tell me how many protons an element has by looking at the periodic table
- Be able to tell me the number of neutrons in an atom if you are given the atomic number and the mass.

Isotopes

- Know what an isotope is
- Know how to name an isotope
- Why is the atomic mass not in whole numbers?
- What happens when I change the number of neutrons?

Electrons and waves

- Know the relationship between frequency and wavelength
- Know the relationship between frequency and energy
- Which color has the most energy?
- Which color has the least energy?
- What is a quantum?