





## **Teacher Notes:**

Boron & Nitrogen - By changing the number of protons we have in an atom, we would change the type of atom we have.

**Carbon-11 & Carbon-13** - By changing the number of neutrons we have in an atom, we would change the atomic mass for the element. Carbon-11 has 6 protons and 5 neutrons, while Carbon-13 has 6 protons and 7 neutrons. Both still have 6 protons, but are isotopes since they have different numbers of neutrons.

Cation & Anion - If we lose or gain electrons, we will have a charged atom called an ion. Atoms that lose electrons will have a positive charge and are called cations. Atoms that gain electrons would have a negative charge and are called anions.