

Name:

Date:

Period:

Subatomic: An Atom Building Game

DIRECTIONS: Use the *Subatomic* game materials (and a Periodic Table if needed) to help you answer the following questions.

1. Name the 3 subatomic particles from the Player Mat that make up an atom.
2. Which 3 particles make up a proton?
3. Which 3 particles make up a neutron?
4. An electron forms when two _____ combine.
5. On each Element card the “Atomic Number” listed on the top LEFT corner of each card always matches which subatomic particle?
6. The “Mass Number” listed on the bottom RIGHT corner of each card is always the SUM of which two subatomic particles?
7. Which particle is the same for all Element cards and DOES NOT affect the “Mass Number”?
8. If one atom of helium has an atomic number of 2 and a mass number of 4, how many neutrons would that atom have in its nucleus?
9. If one atom of boron has an atomic number of 5 and a mass number of 11, how many neutrons would that atom have in its nucleus?
10. If one atom of lithium has an atomic number of 3 and a mass number of 7, how many neutrons would that atom have in its nucleus?