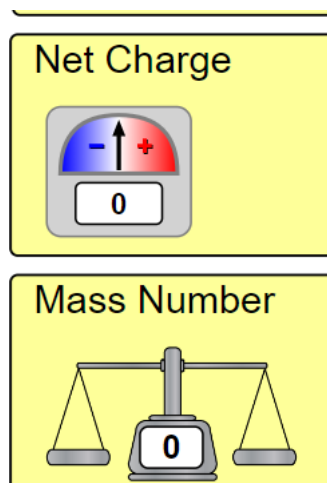
**PART 1.**

1. Start with blank atom. Add protons to the circle one at a time. Look at the periodic table. Does the element change?
2. Start with blank atom. Add neutrons to the circle one at a time. Look at the periodic table. Does the element change?
3. Start with blank atom. Add electrons to the circle one at a time. Look at the periodic table. Does the element change?
4. Conclusion: identity of an atom in the periodic table is determined by the number of protons, or neutrons or electrons?

PART 2

1. Open Net Charge and Mass Number.
2. Add 3 protons. Record the change in mass and charge.
3. Add 1 electron at a time. Notice the change in mass and charge.
4. Add 1 neutron at a time. Notice the change in mass and charge.
5. Conclusion: What determines the mass of the atom?
6. What determines the charge on the atom?

