Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

**Making STABLE Atoms**

This lab will help concretize the makings of a stable atom. If it is unstable, it will be radioactive.

**Procedure**

1. Go to my website, jonathanjohnsonchemistryandphysics.weebly.com, go to Integrated Chemistry-Physics, Unit 3 Chapter 4 or go to **http://tinyurl.com/hk9dlud**

2. Scroll down to the embedded “Build an Atom” phet simulation.

3. Click on the Symbol Button twice.

4. Click the “Stable/Unstable” box.

  

5. Add protons and neutrons to the nucleus and electrons to the circles. Record all STABLE combinations in the table and the appropriate periodic table box. HINT: The number of protons in the nucleus should equal the number of electrons outside the nucleus.





| PROTONS | ELECTRONS | NEUTRONS | MASS NUMBER | SYMBOL |
| --- | --- | --- | --- | --- |
| 1 | **1** | **0** | **1** |  |
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