**Model of an Atom**

DO NOT WRITE ON THIS SHEET!!!

1. For the following elements draw a model first on the white board and then on your worksheet:

|  |  |  |
| --- | --- | --- |
| **Element/Atom** | **Atomic Number** | **Atomic Mass #** |
| **Hydrogen** | 1 | 1.0019 |
| **Helium** | 2 | 4.0026 |
| **Lithium** | 3 | 6.941 |
| **Beryllium** | 4 | 9.0122 |
| **Boron** | 5 | 10.81 |
| **Carbon** | 6 | 12.011 |
| **Nitrogen** | 7 | 14.007 |
| **Oxygen** | 8 | 15.999 |
| **Fluorine** | 9 | 18.998 |
| **Neon** | 10 | 20.179 |

1. Determine the number of protons/neutrons/electrons.
2. Get materials:
   * One 8.5” x 11” sheet of white paper
   * One cup of hole punches
   * One sheet of construction paper (not too big! Cut and share with another group!).
   * Scissors
   * Glue
3. Choose 3 different colors of holes punched from construction paper, one for each particle found in the atom.
4. Assign each color of paper to a certain particle (ex: red for protons, blue for electrons, etc.)
5. Make a KEY for your atom on your whitepaper. Write:
   * Name, Period, Date
   * Identify your atom (what’s your element?)
   * Draw and fill in the following table:

|  |  |
| --- | --- |
| Atom/Element: |  |
| Atomic #: |  |
| Atomic Mass: |  |
| # Protons: |  |
| # Neutrons: |  |
| # Electrons: |  |

1. Cut the white paper into a circle – this is your atom. Glue it onto a piece of construction paper.
2. Glue the hole punches in the appropriate place in your atom.
3. In the middle of the protons, put a (+) sign. In the middle of electrons, put a (-) sign.
4. Write your atom’s name at the top.