**Sci 8 Build your own Atom Assignment Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_**

Individually, you will build the atom assigned to you.

**Step 1.** Circle your assigned element(s) in the chart below or write your name next to the element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Element(s)** | **Name** |  | **Element** | **Name** |
|  1 | Neon |  | 9 | Silicon |  |
| 2 | Fluorine |  | 10 | Phosphorus |  |
| 3 | Oxygen |  | 11 | Sulphur |  |
| 4 | Beryllium  |  | 12 | Chlorine |  |
| 5 | Boron  |  | 13 | Argon |  |
| 6 | Sodium |  | 14 | Potassium |  |
| 7 | Magnesium |  | 15 | Calcium |  |
| 8 | Aluminum |  | 16 | Nitrogen |  |

**Step2:** Using the periodic table, complete the atomic information for your atom(s) including element symbol, atomic number and atomic mass, as the example below.

|  |  |
| --- | --- |
|  **80** **Hg** **200** |  |

**Step 3:** Draw your atom

Atom: \_\_\_\_\_\_\_\_\_\_\_\_

Protons \_\_\_\_\_\_

Neutrons \_\_\_\_\_\_

electrons \_\_\_\_\_\_

orbitals \_\_\_\_\_\_\_

**Step 4: Show to the teacher for approval. Teacher Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Step 5:** Once approved – Build your atom.

Model should have a **different colour for each subatomic particle**. You can use beads, pompoms, wire, etc, as long as you have enough.

**Step 6:** **Label your model** with atom’s name, number of each subatomic particles and shells. Put your name on the back.

**Step 7: Find out a little about your element:**

* + Is it a metal or non-metal?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ What does it look like in its natural state? (gas, solid, liquid, colour, smell, etc) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ What is its main use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Step8: Hand in:**

1. **Hand in this sheet** with **atom model**(s) labelled with name, correct number of all subatomic parts.
2. Self-Assessment: Give yourself a mark out of 4 on how well you think you:
	1. followed instructions on the sheet 1 2 3 4
	2. designed your model 1 2 3 4
	3. provided the necessary data 1 2 3 4