Guided Notes: Structure of an Atom

**Two parts of an Atom**

Nucleus:

Electron Cloud:

**Subatomic Particles**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Charge | Mass (amu) | Symbol |
| **Protons** |  |  |  |
| **Neutrons** |  |  |  |
| **Electrons** |  |  |  |

**Definitions:**

Valence Electrons:

Atomic Number:

Mass Number:

|  |
| --- |
|  |

In **elements**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ALWAYS EQUAL\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

To get the MASS NUMBER:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Electron Orbitals:

1st shell: 2nd shell: 3rd shell:

**Draw a Bohr Model of a Carbon Atom!**

Protons:

Neutrons:

Electrons:

Valence Electrons:

Mass Number: