**Bohr Diagrams – Notes Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**What are they?** A way of **\_\_\_\_\_\_\_\_\_\_\_\_** an atom – to show **\_\_\_\_\_\_\_\_\_\_\_\_\_**, **\_\_\_\_\_\_\_\_\_\_\_\_** and **\_\_\_\_\_\_\_\_\_\_\_\_\_**

**How do you draw them?**

1. Draw a **\_\_\_\_\_\_\_\_\_\_\_** for the nucleus
2. Include the protons (**\_\_\_\_**) and the neutrons (**\_\_\_\_**) in the nucleus
3. Draw **\_\_\_\_\_\_\_\_\_\_**and fill them with the appropriate **\_\_\_\_\_\_\_\_**
	1. Shell 1 – can have **\_\_\_** electrons
	2. Shell 2 – can have **\_\_\_** electrons
	3. Shell 3 – can have **\_\_\_** electrons
4. We will only draw the first **\_\_\_\_\_** elements as Bohr diagrams – so we will only use the first **\_\_\_\_** shells.



**Now let’s practice together:**

|  |  |
| --- | --- |
| Atom of Nitrogen | Ion of Nitrogen N3- |
|  |  |
| Atom of Beryllium | Ion of hydrogen H+ |
|  |  |

**Now – you practice on your own**

Draw – the following – as neutral atoms

**Now, draw the following as ions:**

|  |  |
| --- | --- |
| Beryllium 2+ | Chlorine -1 |
|  |  |
| Calcium 2+ | Phosphorus -3 |
|  |  |