Bohr Diagrams

Niels Bohr developed the Bohr model of the atom with the atomic nucleus at the center and electrons in orbit around it, which he compared to the

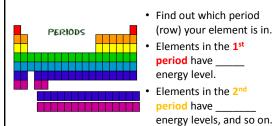


Bohr Diagrams

- 1) Find your element on the periodic table.
- 2) Determine the number of electrons it is the same as the atomic number.
- 3) This is how many electrons you will draw.



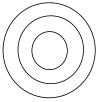
Bohr Diagrams



How to Draw Bohr Diagrams

- 1) Draw a small circle to represent the nucleus.
 - a) Fill in protons . b) Fill in neutrons.
- 2) Carbon is in the 2nd period, so it has two energy levels.
- 3) Draw the shells around the nucleus.
- 4) Add the electrons.
- 5) Carbon has 6 electrons.

- 5) The first shell can only hold 2 electrons. Check your work.
- 6) You should have 6 total electrons for Carbon.
- 7) Only two electrons can fit in the 1st shell.
- 5) The 2nd shell can hold up to 8 electrons
- 6) The 3rd shell can hold 18, but the elements in the first few periods only use 8 electrons.



Check your understanding

Draw the Bohr diagram for:

Aluminum
Atomic Number: _____
Atomic Mass: