



Draw Bohr models for the following atoms:

1. lithium

2. boron

3. nitrogen

4. neon

5. sodium

6. carbon

- The \_\_\_\_\_ of and \_\_\_\_\_ of the electrons significantly affect chemical properties.
- Specifically, it is the \_\_\_\_\_ (outermost) electrons that affect how an atom will interact with other atoms.
- Atoms are most stable when they have \_\_\_\_\_ valance shells.
- The elements that naturally have full valence shells are the \_\_\_\_\_.
- Other elements will gain, lose, or share electrons during chemical reactions in order to get this \_\_\_\_\_.
- Notice, elements in the same \_\_\_\_\_ (vertical column) on the periodic table will have the same number of \_\_\_\_\_.
- The group the element is found in on the periodic table can also help us to predict how many electrons the element will gain, lose, or share during a chemical \_\_\_\_\_.

Group	Valence Electrons	Add __ Electrons	Lose __ Electrons

- The valence electrons are the only electrons that affect the \_\_\_\_\_ of an atom.
- A more simple model, the \_\_\_\_\_, includes only these electrons.

Draw Lewis Dot Structures for the following atoms:

1. lithium

2. boron

3. nitrogen

4. neon

5. sodium

6. carbon