

Valence Electrons

Name

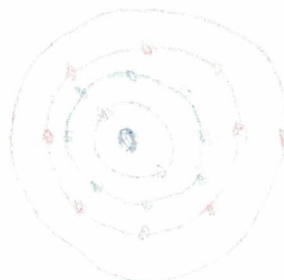
Period

Date 9/12/18

Essential Question: How do I determine and represent the Valence Electrons in an atom?

Valence Electrons are the electrons located in the outermost Energy Level.

Examples



CARBON

Total Number of Electrons 6

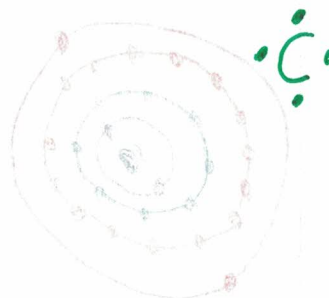
Electron Configuration $1s^2 2s^2 2p^2$

Valence Electrons 4

Bohr's Model



Lewis Dot Diagram



POTASSIUM

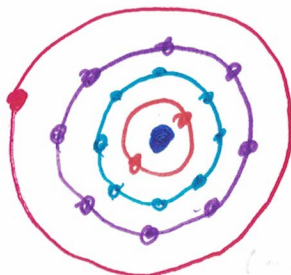
Total Number of Electrons 19

Electron Configuration $1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$

Valence Electrons

1

Bohr's Model



Lewis Dot Diagram



COBALT

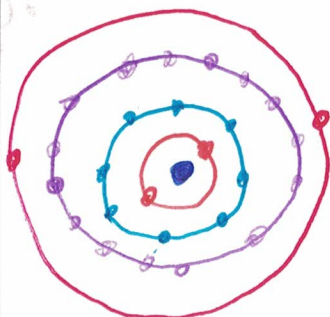
Total Number of Electrons 27

Electron Configuration $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^7$

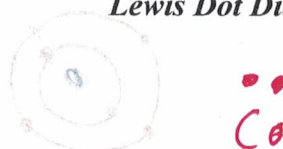
Valence Electrons

2

Bohr's Model



Lewis Dot Diagram



Summary: