

# Periodic and Groups: Valence Electrons: Mastery

## Periodic and Groups

Elements that have the same number of valence electrons have similar properties, so we put them in groups. The the periodic table groups + columns that look like this. They will see family groups 1A-18A. Hydrogen is in the same period as Helium.

Elements that have electrons in the outer shell have similar properties in the Periodic Table. Periods go left to right. Elements in the same vertical columns have similar properties.

Period	Group		Group										18A
	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A	11A	12A	13A
1	H	He											
2	Li	Be											
3	Na	Mg											
4	K	Ca											

Thinking like the game "Monopoly", answer that an element is in period 3 and group 1.

What element is in Period 2, and Group 16A? (Hint: 2 means 2, Group 16A is Chalcogen 16A. The element is oxygen.)

What element is in Period 5 and Period 17?

What element is in Group 2A, and Period 17?

What group would you find a Halogen in?

What group Halogens?

## Valence Electrons

Valence Electrons are the most important electrons in an atom. Each period contains the the same number of valence electrons. Valence electrons are the electrons that are involved in chemical bonding.

Hydrogen 1



1 valence electron

Helium 2



2 valence electrons

Lithium 3



3 valence electrons

Hydrogen and Helium are both in Group 1A. Helium has 2 valence electrons. Hydrogen has 1 valence electron.

Group 1A, including H and He, is called alkali metals. How many valence electrons do they have?

How many electrons?

**Group 18A** - These are noble gases that have a full shell of electrons. Elements are in Group 18 and 18A are called noble gases. Helium, neon, argon, krypton, xenon, and radon are noble gases. "He, Ne, Ar, Kr, Xe, Rn" Group 18A has a full shell of valence electrons. Helium has 2 valence electrons. Argon has 8 valence electrons. Krypton has 18 valence electrons. Xenon has 18 valence electrons. Radon has 18 valence electrons.

# Periods And Groups Valence Electrons Masses Answers

**SJ Ball**



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