

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

Period	Group		Group					Group	
	1A	2A	3A	4A	5A	6A	7A	8A	18A
1	H 1H	He 2He	Transition metals (not shown here)					Li 3Li	Ne 10Ne
2	B 5B	C 6C						Be 4Be	F 9F
3	Al 13Al	Si 14Si						Na 11Na	Ar 18Ar
4	K 19K	Ca 20Ca						Mg 12Mg	Kr 36Kr

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

What element is in Group 1A and Period 2?

What group and period is Helium in?

What element is in Group 2, and Period 18A? (Group 2 is not in 18A, Group 2 is in Column 2B. The column is empty.)

What element is in Group 2A and Period 2?

What element Helium is?

Valence Electrons

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

Hydrogen 1



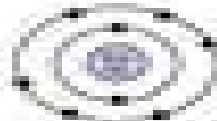
1 valence electron

Helium 2



2 valence electrons

Group 17



7 valence electrons

Group 18, including Helium and Argon, has 8 valence electrons. How many valence electrons will they have?

How many electrons?

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

Group 18A: Helium has more shells than Hydrogen, so it has all electrons. Helium has 2 valence electrons in its 1st shell. Argon has 8 valence electrons in its 3rd shell. Helium has 2 valence electrons in its 1st shell. Argon has 8 valence electrons in its 3rd shell. Helium has 2 valence electrons in its 1st shell. Argon has 8 valence electrons in its 3rd shell.

Periods And Groups Valence Electrons Masses Answers

Chris Hren, Peter J. Mikulecky



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