

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

Periodic Table of Elements													
Elements that lose electrons: They will be mostly groups 1, 2, & 13-16. Elements in the lower portion of table.													
	1A	2A					13A	14A	15A	16A	17A	18A	
Period	1 H												2 He
2	3 Li	4 Be											10 Ne
3	11 Na	12 Mg	Transition metals in between these rows				13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	
4	19 K	20 Ca											

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

What element is in Group 13 and Period 2?

What group and period is Helium in?

What element is in Group 2, and Period 16?

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 about Helium?

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

Group 18A: Helium has more shells than does a 1A atom of Hydrogen. Helium has 2 valence electrons. Helium and Argon are both in 18A, but Argon has 8 valence electrons. Helium has 2 valence electrons. "He" is a noble gas. Group 18A has a full set of 8 valence electrons, normally. All other elements will have gaps in shells for nearly all elements.

Periods And Groups Valence Electrons Masses Answers

Ensheng Dong



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