

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					18A	
	1A	2A	1A	2A	3A	4A	5A	6A	7A
1	H 1H	He 2He							
2	Li 3Li	Be 4Be							
3	Na 11Na	Mg 12Mg	Transition metals in between these rows						
4	K 19K	Ca 20Ca							
5	Rb 37Rb	Sr 38Sr							
6	Cs 55Cs	Ba 56Ba							
7	Fr 87Fr	Ra 88Ra							

Thinking like the game "Monopoly", answer that an element is in period 4 group

What element is in Group 1A and Period 3?

What group would you find a chlorine at?

What element is in Group 2, and Period 10A? element 2, group 10A is element 100. The element is ungu.

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

What element Magnesium?

Valence Electrons

Valence Electrons are the most important electrons in an atom. Each period contains has the same number of valence electrons. Valence electrons are the electrons that get 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-2Helium 2 valence electrons

Group 1A, lithium 3A and 4A valence electrons. How many valence electrons will they have?

How many electrons?

Group 1A - Elements have similar properties that have a full shell of electrons. Elements have 1 valence electron. Group 2A has 2 valence electrons. Group 3A has 3 valence electrons. Group 4A has 4 valence electrons. Group 5A has 5 valence electrons. Group 6A has 6 valence electrons. Group 7A has 7 valence electrons. Group 8A has 8 valence electrons. Group 9A has 9 valence electrons. Group 10A has 10 valence electrons. Group 11A has 11 valence electrons. Group 12A has 12 valence electrons. Group 13A has 13 valence electrons. Group 14A has 14 valence electrons. Group 15A has 15 valence electrons. Group 16A has 16 valence electrons. Group 17A has 17 valence electrons. Group 18A has 18 valence electrons.

Periods And Groups Valence Electrons Masses Answers

Jin-Ying Zhang



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