

Periodic Trends in Electron Configuration

Quick Inquiry


















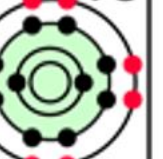
The periodic table is color-coded as follows:

- Main Group:** Yellow background.
- Transition Metals:** Blue background.
- Inner Transition Metals:** Red background.

The periodic table is labeled with element symbols and atomic numbers. The elements are arranged in rows and columns, with the Main Group elements on the left and right, Transition Metals in the center, and Inner Transition Metals at the bottom.



















Examine the image below. What is being represented in the image?

Type Here

	1/ 1A	2/ 2A	13/ 3A	14/ 4A	15/ 5A	16/ 6A	17/ 7A	18/ 8A
n 1	H 1 							He 2 
2	Li 3 	Be 4 	B 5 	C 6 	N 7 	O 8 	F 9 	Ne 10 
3	Na 11 	Mg 12 	Al 13 	Si 14 	P 15 	S 16 	Cl 17 	Ar 18 



















Describe the trend(s) you observe when you move across the PERIOD from left to right.

Type Here

	1/ 1A	2/ 2A	13/ 3A	14/ 4A	15/ 5A	16/ 6A	17/ 7A	18/ 8A
n 1	H 1 							He 2 
2	Li 3 	Be 4 	B 5 	C 6 	N 7 	O 8 	F 9 	Ne 10 
3	Na 11 	Mg 12 	Al 13 	Si 14 	P 15 	S 16 	Cl 17 	Ar 18 

Describe the trend(s) you observe when you move down the groups from top to bottom.

Type Here

	1/ 1A	2/ 2A	13/ 3A	14/ 4A	15/ 5A	16/ 6A	17/ 7A	18/ 8A
n 1	H 1 							He 2 
2	Li 3 	Be 4 	B 5 	C 6 	N 7 	O 8 	F 9 	Ne 10 
3	Na 11 	Mg 12 	Al 13 	Si 14 	P 15 	S 16 	Cl 17 	Ar 18 










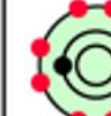








Recall that we call these the representative or A group elements.

What do you think the A group number tells you?

Type Here














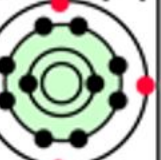

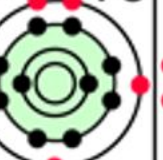
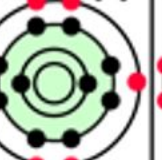
What does the period number tell you?

Type Here

	1/ 1A	2/ 2A	13/ 3A	14/ 4A	15/ 5A	16/ 6A	17/ 7A	18/ 8A
n	H 1 							He 2 
1								
2	Li 3 	Be 4 	B 5 	C 6 	N 7 	O 8 	F 9 	Ne 10 
3	Na 11 	Mg 12 	Al 13 	Si 14 	P 15 	S 16 	Cl 17 	Ar 18 

Compare this diagram to the Periodic Table. Is it exactly the same. What groups of elements are not included in this diagram? SPECULATE: Why do you think that is?

Type Here

	1/ 1A	2/ 2A	13/ 3A	14/ 4A	15/ 5A	16/ 6A	17/ 7A	18/ 8A
n								
1	H 1 							He 2 
2	Li 3 	Be 4 	B 5 	C 6 	N 7 	O 8 	F 9 	Ne 10 
3	Na 11 	Mg 12 	Al 13 	Si 14 	P 15 	S 16 	Cl 17 	Ar 18 