

ATR_(H) Periodic Table

- A.** Review your annotated periodic tables and your note sheet from Tuesday (5 min).
B. Answer the questions below and complete the provided blank periodic table.

- In the context of the periodic table, the term “period” refers to... (check all that apply)
 - ☐ An energy shell
 - ☐ A column
 - ☐ A row
 - ☐ A family of elements
- Number the periods 1-7 on both the left and right side of the periodic table.
- In the context of the periodic table, the term “group” refers to... (check all that apply)
 - ☐ A column
 - ☐ A family of elements
 - ☐ A row
 - ☐ An energy shell
- Number the groups of elements with numbers 1-18 along the top of the periodic table.
- Identify the period number and the group number for each of the elements in the table below. Identify the element when period- and group numbers are given.

Element	Period #	Group #
Magnesium		
Silver		
Nitrogen		
Lead		
Bromine		
Radon		
Iron		
	6	3
	4	16
	6	11

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6. Using different colored pencils, shade in the following groups/families of elements and provide a key below.
- (a) Alkaline earth metals
 - (b) Transition metals
 - (c) Halogens
 - (d) Alkali metals
 - (e) Noble gases
7. Give the missing information in the table below. Answers may vary for the last three rows.

Symbol	Name	Period #	Group #	Group/Family Name	Block (s, p, d, f)
	Barium				
		3		Halogen	
		5		Alkali Metal	
		4		Noble Gas	
	Argon				
	Iodine				
	Strontium				
	Potassium				
			4	Transition Metal	
				Lanthanide (not La)	
				Actinide (not Ac)	

8. Identify the element and **AND** write the Noble Gas Configuration for the following elements:
- (a) The group 14 element in period 4 _____

 - (b) The transition metal with the smallest atomic number _____

 - (c) The alkaline earth metal with atomic number 56. _____

9. Give the group numbers that make up each of the following blocks:
- s block (_____) p block (_____) d block (_____)

***** END *****