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.

1. 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

2. Number the periods 1-7 on both the left and right side of the periodic table.

3. 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

4. Number the groups of elements with numbers 1-18 along the top of the periodic table.

5. 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**

LIVEWORKSHEETS

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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 *****

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