

Periodic Table Packet #1

Name _____

Period _____

Directions: Answer the questions with the proper information using your notes, book, and the periodic table.

- Define a family. A column - similar properties
- What is a period? A row - same energy levels
- What is the symbol for the following elements.
 - Magnesium Mg
 - Potassium K
 - Iron Fe
 - Copper Cu
- What are the names of the following elements.
 - C Carbon
 - Cl Chlorine
 - Au Gold
 - Sr Strontium
- What period are the following elements in?
 - He 1
 - Ge 4
 - Rb 5
 - I 5
- What group are the following elements?
 - Sulfur 16
 - Ca 2
 - Iodine 17
 - Fe 8
- Give me an atom with the following characteristics.
 - Halogen Cl
 - Chalogen O
 - Alkali metal Li
 - Boron Si
 - Lanthanide series Eu
 - Alkaline Earth metal Mg
 - Transition metal Ti
 - Nobel gas Xe

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Directions: Use your Periodic table to complete the worksheet.

1. What is the atomic symbol for silver? *Ag*
2. What is the atomic mass of mercury? *Hg*
3. Ni is the symbol for what element? *Nickel*
4. The element that has the atomic number 17 is? *Chlorine*
5. List the symbols for two transition metals. *Cr, Co*
6. Cu, Ag, and Au are all in what group # *11*
7. Name two noble gases *Ne, Ar*
8. Give the symbol for two halogens. *F, Br*
9. What is the symbol for element with atomic number 74? *W*
10. What is the atomic mass of copper? *63.546*
11. What is the last element in period 4? *Kr*

For questions 12 - 15, label the following Key box as it should appear on your periodic table

12. *Atomic #* → 6
13. *Atomic symbol* → C
14. *name* → Carbon
15. *Atomic Mass* → 12.01

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6.4 c Periodic Table of Elements

Directions: Use the periodic table to fill in the below chart.

	Element	Symbol	Atomic Number	# of protons	# of electrons	Atomic Mass	Rounded Atomic Mass	(show work) # of Neutrons	Period
1	Oxygen	O	8	8	8	15.999	16	$16 - 8 = 8$	2
2	Helium	He	2	2	2	4.00	4	2	1
3	Carbon	C	6	6	6	12.01	12	6	2
4	Aluminum	Al	13	13	13	26.98	27	14	3
5	Calcium	Ca	20	20	20	40.078	40	20	4
6	Sodium	Na	11	11	11	22.98	23	12	3
7	Potassium	K	19	19	19	40.08	40	21	4
8	Nitrogen	N	7	7	7	14.006	14	7	2
9	Silicon	Si	14	14	14	28.085	28	14	3
10	Iron	Fe	26	26	26	55.847	56	30	4
11	Hydrogen	H	1	1	1	1.007	1	0	1

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Directions: Use a Periodic table to find the information asked for below:

1. What is the atomic number of:

Calcium 20
Iron 26
Gold 79
Uranium 92

2. What is the Atomic mass of:

Calcium 40.078
Iron 55.847
Uranium 238.0289
Copper 63.546

3. How many protons do the following have?

Calcium 20
Gold 79
Copper 29
Iron 26

4. How many electrons do the following have?

Gold 79
Iron 26
Copper 29
Uranium 92

5. Does mercury have more protons and electrons than tin?

Yes

6. Is mercury a heavier element than tin?

Yes

7. Does potassium have more electrons than neon?

Yes

8. Does hydrogen have more electrons than Uranium?

No

9. Which has more protons, sulfur or iodine?

Iodine

10. Write the symbols or the names for each of these elements:

Chlorine Cl

Zn Zinc

Copper Cu

Helium He

Potassium K

Iron Iron

Silver Ag

P Phosphorus

Na Sodium

Ne Neon

Sn Tin

Mercury Hg