## Jame:

## How is the Periodic Table Arranged?

Below is a portion of the periodic table. In the answer spaces provided in the table, fill in the [1] atomic number, [2] electron configuration, [3] number of shells, and [4] number of outer shell electrons as indicated in the key below. Then, answer the questions that follow.

Symbol KEY

															_					
[3]	[2]	Ξ	[4]	[2]	[2]	[E] Na	[4]	[3]	[2]	[3]	[4]	[3]	[2]	[3]			100	Fine		
[3]	[2]	[3] C3	[4]	[3]	[2]	[1] Mg	[4]	[3]	[2]	[1] Be					Moseley					7)
			[4]	[3]	[2]	[E] A	[4]	[3]	[2]	E 8						[4] Nun	[3] Nun	[2] Elec	[1] Ator	
			[4]	[3]	[2]	[1] Si	[4]	[3]	[2]	[E] C						[4] Number of Outer Electrons	[3] Number of Shells	[2] Electron Configuration	[1] Atomic Number	Symbol
			[4]	[3]	[2]	[E] <b>P</b>	[4]	[3]	[2]	E						lectrons		tion		1bol
			[4]	[3]	[2]	[1] S	[4]	[3]	[2]	0										
			[4]	[3]	[2]	[1] 0	[4]	[3]	[2]	[1]					Mendeleev	j				ָנ ע
			[4]	[3]	[2]	[1] Ar	[4]	[3]	[2]	[1] Ne	[4]	[3]	[2]	[1] He		*				

[4]

How is the Periodic Table Arranged?

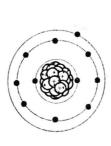
7.	6		'n	4.	.ω	2. 1	- Ans
How is helium different from neon and argon? How is it similar?	Which element has 3 outer electrons and 2 shells?		Imagine element number 15 had never been discovered. What characteristics would you predict it to have based on its location on the periodic table?	By what two characteristics are all the elements of the <i>Periodic Table</i> placed in a particular row and column	What do all the elements in a horizontal row of the Periodic Table have in common?	What do all the elements in a vertical column of the Periodic Table have in common?	Answer the questions below by referring to the data on the table you filled in on the first page.  1. In what order are the elements of the <i>Periodic Table</i> arranged?
		K C.	H Be Na Mg	ble pla	have i	e have	ou fille
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			o 0	ow an			20 CP
			Ω ×	d col			
			3 8 8				

## Understanding Periods and Groups

periods and groups, answer the following questions. Directions: Using your Periodic Table of Elements and your knowledge of

- How many periods make up the periodic table?
- 2. How many groups make up the periodic table?
- 3. How many elements make up period one (1)? Period three (3)? Period six (6)?
- 4. How many elements make up group seven (7)? Group fourteen (14)? Group eighteen (18)?
- Name the element that resides here: a. Group eighteen (18) - Period five (5)
- 5 Period seven (7) - Group two (2)
- c. Group one (1) Period one (1)\_
- d. Period three (3) Group sixteen (16)
- Group ten (10) Period six (6)
- f. Period one (1) Group eight (8)

- 6. Which of the following pairs would most-likely have similar physical and chemical properties? Explain your answer.
  a. Lithium and Selenium
- Vanadium and Radon
- Sodium and Potassium
- 7. Which of the following represent an atom from period three? Explain your answer.







8. Which of the following atoms could reside in the same group? Explain your answer.





