Chapter 4: The Periodic Table Review Sheet

1.	Who is responsible for the first Periodic Table? How did he first arrange his elements?
	DMITRI MENDELEEV

2. What did this gentleman (from #1) see that caused him to create a new row?

3. What does it mean for something to be periodic?

4. If something is periodic, what can we do with it?

5. Explain why the periodic table is periodic and give two examples we observed in lab which show periodic properties. TRENDS FOR

6. Because of the organization of the periodic table, what was Mendeleev able to do? PLEDICT PROP.

7. Which of the following elements will not be related to the others: nitrogen, antimony, of UNDISC. Chromium, bismuth, arsenic,

CHROMIUM NOT IN SAME GROUP

8. When we say that the repeating properties of the periodic table are because of the valence electrons, what does this mean?

THOSE PROPERTIES ARE FROM WHAT

9. When we refer to the s-block on the periodic table, what does this mean? How about the p-block, the d-block or the f-block?

$$5 = 6ROUP | 42$$
 $d = 6ROUP | 3-12$
 $p = 6ROUP | 3-18$ $f = BOTTOM 2 "ROWS"$

10. What element has a valence electron configuration of 2s²2p⁴? Name another element in the same family.

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11. Complete electron configurations and identify the valance electrons for the following elements. What is the highest energy level for each of the following: 1. Sodium 3s ¹	
2. Strontium 55 ² 3. Phosphorus 3p ³ 4. Gold 5d ⁹ 10. Been the model to a market label that four proportion that models have then normately decreased.	
12. Based on the metal/nonmetal lab, list four properties that metals have than nonmetals do not cowducTS -MALLEABLE -REACTS W/ACID -SOFT	
13. What is a metalloid? How are metalloids different from metals? How are they different from nonmetals? PLOPELTIES OF BOTH M/VM	
 14. Which way do the families run on the periodic table columns or rows? What is another name for a family? Write the names for each of the families on your periodic table. GPO UP 15. Which way to periods run on the periodic table? POWS 16. Why are the noble gases called noble? Give me two examples of noble gases? 	
THEY HAVE FULL OCTET - 8 VALENCE C	
17. Is hydrogen an alkali metal? Explain why it is in the alkali metal column?	
18. What is the big bang? Explain how the big bang formed elements? HIGH E FORMED TO MAKE 19. What is fusion? If two hydrogen atoms undergo fusion, what element is formed? TO MAKE 2 ELEMENT MAKE BIGGEL ELEMENT; He ATOM	ДЕТІН ЕЦЕМ,
20. What is transmutation? What do they mean when they say that transmutation is a nuclear reaction?	
PRODUCES ANOTHER ELEMENT AND LOTS OF ENERGY	A Committee of the Comm
21. What is an artificial element? How are artificial elements created?	
MAN MADE ELEMENT - BOMBARDING ATOMS	
10 FUSE TOGETHER 22. Compare and contrast synthetic and natural elements? Where does the word fusion fit into this comparison?	Agrangia di Maria da