PERIODIC TABLE WEBOUEST for its _ ____. Every element in the second Part I: "Dmitry Who?" Go to has ___ pattern? http://library.thinkquest.org/3659/pertable/ __ shells for its ___ . See the 1. Why was it necessary to create a periodic table? 5. Groups are ___ ____ that run from top to bottom. 6. The elements of a group have the same number of _____ in their _____ shell. 2. What two properties is the modern periodic table based upon? 7. Every element in group one has _____its outer shell. Every element in group 3. Name the two men credited with the development of the first periodic tables in 1869. electrons in its outer shell. 8. Hydrogen is special because it can act like two groups, _____ and _ 4. What was Mendeleev's table was based upon? 9. Hydrogen sometimes is _ sometimes it has an _____ electron. 5. The table is called the periodic table because? 11. Although helium has only _____ electrons in its outer shell, it is grouped with elements that have _ 6. Mendeleev's periodic law states that: 12. The gray elements on this table are called elements. They each have two electrons in their outer shell. The modern periodic law states that: Part III: "Family Fun" Go to http://chemicalelements.com/ 8. Mendeleev's table was arranged in rows, called Click on Alkali Metals (left bar) and answer the following questions. __, and columns called a. What is the group number? ___ . Elements of each have similar properties. b. Are these metals reactive? _ 9. Explain why Mendeleev left blank spaces in his periodic table? c. Do these metals occur freely in nature? ____ d. How many electrons are in their outer shell? e. What are the three characteristics of ALL metals? 10. Explain why some elements Mendeleev knew about did not fit perfectly on his table. Part II: "Get Organized Periodically" Go to f. Are these metals soft or hard? __ http://www.chem4kids.com/files/elem_pertable.html

g. Name the two most reactive elements in this

bar) and answer these questions.a. What is the group number? ____

h. What happens when they are exposed to water?

14. Go back and click on Alkaline Earth Metals (left

1. Why are the elements placed in specific places on

3. Elements in the same period have the same

4. Every element in the first period has ____

Periods are

___ that run from left to right.