**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_**

**8th grade study guide: Chapter 7 - The Periodic Table**

1. Chapter 7 Vocabulary (all of the words).

2. The number of known elements at the time of Mendeleev. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. The four things found on an “element’s key”. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4. Three-fourths of the periodic table consists of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. Which of the following is NOT one of the repeating patterns in Mendeleev’s periodic table?

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | melting point | **C** | atomic mass |
| **B** | boiling point | **D** | reactivity |

6. Differences between nonmetals, metals, and metalloids and their properties.

7. The location of the groups on the periodic table of elements (this information is on your foldables).

8. Which of the following properties is NOT common to alkaline earth metals?

|  |  |
| --- | --- |
| **A** | soft and silvery |
| **B** | low density |
| **C** | react more quickly than alkali metals |
| **D** | do not occur naturally |

9. The element that makes up most of the human body is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

10. Why are noble gases so special/unique? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. The location of metals, metalloids, and nonmetals on the periodic table.

12. Mercury (Hg) is the only \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ solid at room temperature.

13. When a metal and a halogen element react, they form a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

14. Elements in rows/columns share similar chemical properties (pick/circle one).

15. Elements on the periodic table are arranged in order of their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

16. Identify at least one reason why scientists may use a model instead of a controlled experiment.