

8th Grade Science

Introduction to Matter Book

Chapter Five: The Periodic Table (pg 106-120)

Answer each of the following questions on a piece of notebook paper, in a complete sentence, restating the question in your answer. Failure to follow these rules will result in the student having to rewrite the assignment to earn their points.

1. Who came up with the basic arrangement of elements that we use today?
2. What are the three groups that elements are classified into?
3. Which metal is the only one to be a liquid at room temperature?
4. What are five properties of metals?
5. What are five properties of nonmetals?
6. Most nonmetals are in what physical state at room temperature?
7. What makes a metalloid a metalloid?
8. What four things are included in each box of the periodic table?
9. How do some elements get their names?
10. Why is a group sometime called a family?
11. Are the properties of sodium, Na, more like the properties of lithium, Li, or magnesium, Mg? Explain your answer.
12. Why are properties of elements in the same group similar?
13. If elements are reactive, what does that mean?

14. Describe two properties of the alkali metals.
15. How do alkaline-earth metals compare to alkali metals?
16. Name five characteristics of transition metals.
17. How do humans use nitrogen, even though it does nothing for them when they use it?
18. Oxygen is a key ingredient if we want this to happen.
19. Why do humans as well as other animals need to breathe oxygen?
20. When a halogen reacts with a metal what is produced?
21. What makes noble gases unwilling to react?
22. Why are blimps now filled with helium when originally they were filled with hydrogen?
23. What is the most abundant element in the universe?