

Periodic Table Homework Answers

Select the best answer for each of the following:

1. **The elements in groups 3-12 of the periodic table:**
 - a. All metals
 - b. Mostly non-metals
 - c. Mostly metals
 - d. Semi-metals

2. **The only non-metal not found on the right hand side of the table is:**
 - a. Oxygen
 - b. Helium
 - c. Hydrogen
 - d. Carbon

3. **Metallic elements are usually malleable. This means that...**
 - a. They can be drawn into wires
 - b. They can be bent into shapes
 - c. They make a deep ringing sound
 - d. Are see through when in a thin sheet

4. **Semi-metals or metalloids usually...**
 - a. Gain electrons in a chemical reaction.
 - b. Lose electrons in a chemical reaction.
 - c. Can either gain or lose electrons in a chemical reaction.
 - d. Have full valence shells, so do not give or take electrons.

5. _____ **describes the way in which a substance is able to reflect light or shines.**
 - a. Malleable
 - b. ductile
 - c. brittle
 - d. lustrous

6. **A substance which is easily broken is said to be...**
 - a. Malleable
 - b. ductile
 - c. brittle
 - d. lustrous

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7. Non-metals are poor conductors of:

- a. Heat but not electricity
- b. Heat and electricity
- c. Electricity but not heat
- d. Neither heat nor electricity

8. Non-metals are...

- a. Lack luster
- b. Brittle
- c. Non-sonorous
- d. All of the above

9. Elements which are able to make a deep ringing sound are said to be...

- a. Malleable
- b. Sonorous
- c. Ductile
- d. Lustrous

10. Non-metals solids have...

- a. A high melting and boiling point
- b. A high melting point and a low boiling point
- c. A low boiling point and a low melting point
- d. A low melting point, but a high boiling point

11. Which of the following elements is likely to have the highest melting and boiling point?

- a. Aluminium
- b. Oxygen
- c. Sulfur
- d. Carbon

12. Metallic elements such as copper are ductile, meaning that...

- a. They can be drawn into wires
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13. Iron is an example of a metallic element. Which of the following properties is not likely to be characteristic of iron?

- a. Shiny
- b. Solid
- c. Poor conductivity
- d. Sonorous

14. Sulfur is an example of a non-metal element. Which of the following properties is not likely to be characteristic of sulfur?

- a. Gains electrons in a chemical reaction
- b. Brittle
- c. Transparent as a thin sheet
- d. High density

15. Mercury is a metal. Which of the following properties is more similar to a non-metal than a metal?

- a. Its high density
- b. It is a liquid at room temperature
- c. It can conduct electricity and heat.
- d. It loses electrons in a chemical reaction.

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