

Word Game

On the lines below, write the word or words that best fit the description on the left. When you are finished, the boxed-in letters will spell out one of the topics discussed in the chapter. Fill in the word or phrase in the space provided.

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|--|---|
| 1. Illustration of valence electrons and bonding | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |
| 2. Combining of elements to form new substances | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |
| 3. Regular repeating arrangements of ions in a solid | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |
| 4. Substances with very large molecules due to continued bonding of the atoms | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |
| 5. Sharing of electrons by two or more elements | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |
| 6. Can be hammered into thin sheets without breaking | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |
| 7. Can be drawn into thin wire | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |
| 8. Transfer of electrons to fill the outermost energy level of an atom, which forms a charged atom | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |
| 9. Tendency of an atom to attract electrons | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |
| 10. Group of covalently bonded atoms that acts like a single atom when combining with other atoms | <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> |

11. Smallest unit of a covalently bonded substance that has all the properties of that substance

_____ ☐ _____

12. Combining capacity of an atom, determined by outermost energy level

_____ ☐ _____

13. Negatively charged particles in the outermost energy level

_____ ☐ _____

14. The type of energy that refers to the amount of energy needed to remove electrons from neutral atoms

_____ ☐ _____

15. Type of bond characterized by a sea of mobile electrons surrounding and attracted by the nuclei of combining atoms

_____ ☐ _____

Exists in nature as two atoms covalently bonded
