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| 1. allotropes | different forms of an element; they may have different physical or chemical properties | 19. ionic equations | chemical equations that show the formation of ions by the loss or gain of electrons |
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| 2. atmosphere | the envelope of gas, vapour and aerosol particles surrounding the Earth, forming constituent in the environment of most forms of terrestrial life | 20. isotopes | atoms of the same element that have the same atomic number but different mass number i.e. they have the same number of protons, but a different number of neutrons |
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| 3. atomic number | the number of protons in the nucleus of an atom, defining the chemical element | | |
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| 4. balanced equation | an equation using chemical symbols, having equal numbers of each atom on both sides | | |
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| 5. biosphere | the region of the Earth inhabited by living things, including air, land and water | | |
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| 6. chemical changes | changes that lead to a new substance being formed | | |
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| 7. compound | a substance formed when two or more chemical elements are chemically bonded together in the same ratio | | |
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| 8. covalent molecules | atoms linked by chemical bonds with sharing of electrons e.g. oxygen, carbon dioxide | | |
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| 9. covalent network substance | a substance with covalent bonds between atoms extending in a 3-dimensional network e.g. diamond, silicon oxide | | |
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| 10. decomposition | a chemical reaction when a compound splits up into elements or simpler compounds | | |
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| 11. electrolysis | the chemical reaction occurring when an electric current passes through a liquid; often used for obtaining pure elements | | |
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| 12. electron | an elementary particle of an atom, found in shells surrounding the nucleus | | |
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| 13. element | a substance composed of atoms of the same atomic number, incapable of being broken down to simpler substances displaying the same properties | | |
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| 14. empirical formula | a formula giving the proportions of the elements present in a compound but not the actual numbers or arrangement of atoms | | |
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| 15. gravimetric analysis | a set of methods for quantitatively determining a sample based on mass | | |
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| 16. hydrosphere | all the water of the Earth, in the oceans, rivers, lakes etc. | | |
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| 17. ion | an atom or group of atoms that has become electrically charged by the gain or loss of electrons e.g. Cl ⁻ , Na ⁺ | | |
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| 18. ionic compounds | a substance with attraction between positive and negative ions e.g. NaCl | | |
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