

Chemistry Matter And Change Crossword Puzzle

Answer Key

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Across

1 ATOM The smallest unit of an element that retains the chemical properties of that element 5 letters

2 MOLECULE A group of two or more atoms held together by chemical bonds 8 letters

3 CHEMICAL REACTION A process that involves the rearrangement of atoms and molecules resulting in the formation of new substances 15 letters

4 SOLID A state of matter with a definite shape and volume 5 letters

5 LIQUID A state of matter with a definite volume but no definite shape 6 letters

6 GAS A state of matter with no definite shape or volume 3 letters

7 PHYSICAL CHANGE A change in the form or appearance of a substance but not its chemical composition 13 letters

8 CHEMICAL CHANGE A change in the chemical composition of a substance resulting in the formation of new substances 13 letters

9 REACTION RATE The speed at which a chemical reaction occurs 12 letters

10 CATALYST A substance that speeds up a chemical reaction without being consumed in the process 8 letters

11 ENDOTHERMIC A reaction that absorbs energy from its surroundings often resulting in a decrease in temperature 11 letters

12 EXOTHERMIC A reaction that releases energy to its surroundings often resulting in an increase in temperature 10 letters

13 ACTIVATION ENERGY The minimum amount of energy required for a chemical reaction to occur 15 letters

14 EQUILIBRIUM A state where the rates of the forward and reverse reactions are equal resulting in no net change in the concentrations of reactants and products 11 letters

15 PH A measure of the acidity or alkalinity of a solution 3 letters

16 ACID A substance that donates hydrogen ions H in solution 4 letters

17 BASE A substance that accepts hydrogen ions H in solution 4 letters

18 NEUTRALIZATION A reaction between an acid and a base that produces salt and water 12 letters

19 SALT An ionic compound formed by the reaction of an acid and a base 4 letters

Down

1 ELEMENT A pure substance that cannot be broken down into simpler substances by ordinary chemical means 8 letters

2 COMPOUND A substance formed by the chemical combination of two or more different elements in a fixed ratio 8 letters

3 MIXTURE A combination of two or more substances that are not chemically bonded 7 letters

4 HOMOGENEOUS MIXTURE A mixture with a uniform composition throughout 16 letters

5 HETEROGENEOUS MIXTURE A mixture with a nonuniform composition throughout 18 letters

6 SOLUTION A homogeneous mixture of two or more substances 7 letters

7 SOLUTE The substance being dissolved in a solution 6 letters

8 SOLVENT The substance in which the solute dissolves 7 letters

9 CONCENTRATION The amount of solute present in a given amount of solution 11 letters

10 DENSITY The mass of a substance per unit volume 7 letters

11 VOLUME The amount of space occupied by a substance 6 letters

12 MASS The amount of matter in a substance 4 letters

13 TEMPERATURE A measure of the average kinetic energy of the particles in a substance 10 letters

14 HEAT The transfer of thermal energy between objects at different temperatures 4 letters

Instructions

This crossword puzzle is designed to test your understanding of fundamental chemistry concepts related to matter and change. Use the clues provided to fill in the crossword grid with the appropriate terms.

Answer Key

To access the answer key please contact the teacher or instructor for this crossword puzzle.

Notes

This crossword puzzle is a great tool for reviewing and reinforcing essential chemistry concepts. Students are encouraged to use their textbooks, notes, and other resources to complete the puzzle.

3 The puzzle can be adapted to different levels of difficulty by adjusting the complexity of the clues and the number of terms included. This crossword puzzle can be a fun and engaging way to learn about the exciting world of

chemistry

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