

Matter

Study Guide & Review Worksheets

Matter

Terms to Know

- **Matter**, Anything that has mass and takes up space
- **Mass**, The amount of matter in an object
- **Atoms**, Tiny particles that matter can be subdivided into

Mixtures and Solutions

Mixtures

A mixture is when two or more substances are combined. They do not lose their characteristics.

Examples



soil



concrete



mud puddle

Solutions

Solutions are a special type of mixture in which one substance is uniformly dissolved in a liquid.

Examples



sugar water



soda



salt water

Temperature and Phase Changes

Matter can change from one state to another when the temperature increases or decreases.

When the temperature increases, a solid will change to a liquid and then to a gas.

Example:

When a pot of water is put on a hot stove, it boils. The liquid water changes to water vapor.



When the temperature decreases, a gas will change to a liquid and then to a solid.

Example:

When liquid freeze pops are put into a freezer, they become solid.



Mass and Phase Changes

Matter does not gain or lose mass during phase changes.

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Terms to Know

Anything that has mass and takes up space. Matter in an object can be subdivided into atoms.

Mixtures and Solutions

Solutions

Solutions are a special type of mixture in which one substance is uniformly dissolved in a liquid.

List 3 examples:

Temperature and Phase Changes

Matter can change from one state to another when the temperature increases or decreases.

When the temperature increases, a solid will change to a liquid and then to a gas.

Example:

Mass and Phase Changes

Matter does not gain or lose mass during phase changes.

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Arshad Iqbal



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physical properties of group II elements physical properties of group VII elements reaction of group II elements with oxygen reactions of group II elements reactions of group VII elements thermal decomposition of carbonates and nitrates thermal decomposition of group II carbonates thermal decomposition of group II nitrates uses of group II elements uses of group II metals uses of halogens and their compounds The Halogenoalkanes Quiz Questions PDF e Book Chapter 14 interview questions and answers on Halogenoalkanes uses of halogenoalkanes elimination reactions nucleophilic substitution in halogenoalkanes and nucleophilic substitution reactions The Hydrocarbons Quiz Questions PDF e Book Chapter 15 interview questions and answers on Introduction to alkanes sources of alkanes addition reactions of alkenes alkane reaction alkenes and formulas The Introduction to Organic Chemistry Quiz Questions PDF e Book Chapter 16 interview questions and answers on Organic chemistry functional groups organic reactions naming organic compounds stereoisomerism structural isomerism and types of organic reactions The Ionic Equilibria Quiz Questions PDF e Book Chapter 17 interview questions and answers on Introduction to ionic equilibria buffer solutions equilibrium and solubility indicators and acid base titrations pH calculations and weak acids The Lattice Energy Quiz Questions PDF e Book Chapter 18 interview questions and answers on Introduction to lattice energy ion polarization lattice energy value atomization and electron affinity Born Haber cycle and enthalpy changes in solution The Moles and Equations Quiz Questions PDF e Book Chapter 19 interview questions and answers on Amount of substance atoms molecules mass chemical formula and equations gas volumes mole calculations relative atomic mass solutions and concentrations The Nitrogen and Sulfur Quiz Questions PDF e Book Chapter 20 interview questions and answers on Nitrogen gas nitrogen and its compounds nitrogen and gas properties ammonia ammonium compounds environmental problems caused by nitrogen compounds and nitrate fertilizers sulfur and oxides sulfuric acid and properties and uses of sulfuric acid The Organic and Nitrogen Compounds Quiz Questions PDF e Book Chapter 21 interview questions and answers on Amides in chemistry amines amino acids peptides and proteins The Periodicity Quiz Questions PDF e Book Chapter 22 interview questions and answers on Acidic oxides basic oxides aluminum oxide balancing equation period 3 chlorides balancing equations reactions with chlorine balancing equations reactions with oxygen bonding nature of period 3 oxides chemical properties of chlorine chemical properties of oxygen chemical properties periodicity chemistry periodic table chemistry oxides chlorides of period 3 elements electrical conductivity in period 3 oxides electronegativity of period 3 oxides ionic bonds molecular structures of period 3 oxides oxidation number of oxides oxidation numbers oxides and hydroxides of period 3 elements oxides of period 3 elements period III chlorides periodic table electronegativity physical properties periodicity reaction of sodium and magnesium with water and relative melting point of period 3 oxides The Polymerization Quiz Questions PDF e Book Chapter 23 interview questions and answers on Types of polymerization polyamides polyesters and polymer deductions The Rates of Reaction Quiz Questions PDF e Book Chapter 24 interview questions and answers on Catalysis collision theory effect of concentration reaction kinetics and temperature effect on

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