

Basic Chemistry Study Guide 2

1. Hydrogen bonds

1. Form between two polar molecules **covalent bonds**
2. A hydrogen's δ^+ region is attracted to a δ^- region in another molecule.
3. Form between water molecules (Where are the δ^+ and δ^- regions in a water molecule? **hydrogen bonds, at the top of the symbol**)
4. Each hydrogen bond is very weak (can be easily formed and broken).
5. There are many hydrogen bonds in water. Together, these bonds give water its unique properties that are essential for life
6. One of these properties is the ability to be a solvent for other polar molecules.
7. Hydrogen bonds are depicted in figures as dotted or dashed lines between two atoms.

2. Solutions, solvents, and solutes

1. Water is the most abundant molecule in living organisms, and 60% of human body weight is water.
2. Water is located inside and outside of our cells.
3. Body fluids are solutions
4. Define the terms **solution, solvent, and solute**. **Solvent: a substance capable of dissolving other polar molecules and ionic bonds, solutes: molecules dissolved in the solvent, solution: homogeneous mixture**

3. How substances dissolve in water

1. When a solute dissolves, it becomes surrounded by water molecules.
2. For a solute to dissolve, it must attract water molecules.
3. What kinds of substances attract water molecules? **Sugars, nucleic acids, and amino acids**
4. When a solute dissolves it forms hydrogen bonds with water molecules.
5. Define the terms **ion, cation, and anion**. **ion: atom with a charge, cation: positively charged ion, anions: negatively charged ion**
6. Define the terms **hydrophilic** and **hydrophobic** **Hydrophilic: attracted to water, hydrophobic: afraid of water**
7. What types of molecules are hydrophilic and what types are hydrophobic? **Nonpolar hydrophobic, polar hydrophilic**

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Barron's Science 360: A Complete Study Guide to Chemistry with Online Practice Barron's Educational Series, Mark Kernion, Joseph A. Mascetta, 2021-09-07 Barron's Science 360 Chemistry is your complete go to guide for everything chemistry This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you'll find Comprehensive Content Review Begin your study with the basic building block of chemistry and build as you go Topics include atomic structure chemical formulas electrochemistry the basics of organic chemistry and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come [Complete Chemistry for NEET\(UG\) Medium-English](#) GURCHARANAM ACADEMY PRIVATE LIMITED, Complete Chemistry for NEET UG Physical Organic Inorganic Chemistry cover Class 11th 12th Medium English *MCAT Complete; Medical College Admission Test Comprehensive Study Guide Physical Sciences; Biological Sciences; Verbal Reasoning* James Adams, Maryn Munley, Nathan Eisenbeis, Caroline Miller, Jesse Shetler, 2021-10-12 The MCAT The Medical College Admission Test MCAT is a standardized multiple choice examination designed to assess the examinee's problem solving critical thinking and knowledge of science concepts and principles prerequisite to the study of medicine Scores are reported in Physical Sciences Verbal Reasoning and Biological Sciences Study guide covers AAMC Association of American Medical Colleges content Physical Sciences Biological Sciences Verbal Reasoning Mathematics Concepts The Cell Chromosomes Reproduction Implantation Microorganisms Biochemistry Human Physiology The Heart The Lymphatic System GI Tract Musculoskeletal System Kidney Hormones Nerves Skin Genetics Populations and Evolution Elements Hund's Rule and Radiation The Periodic Table Covalent Bonds Molecular Shapes General Chemistry Kinetic Molecular Theory Phase Change Solutions Oxidation Numbers Entropy Acids and Bases Galvanic and Electrolytic Cells Carbon Stereochemistry Alkanes and Alkenes Hydrogen Bonding Alcohols Phenols Aldehydes and Ketones in Carboxylic Acids Ether Ammonia Amino Acids Carbohydrates Spectroscopy Separation and Distillation Vectors and Simple Motion Forces Circular and Projectile Motion Statics Center of Gravity Work and Energy Power and Momentum Stress and Strain Elasticity and Density Hydrostatic Pressure Fluids in Motion Electricity and Magnetism Plates Capacitors Voltage Batteries Resistors Magnetic Fields Waves and Periodic Motion Sound Waves Doppler Effect Simple Harmonic Motion Optics Mirrors 205 pages *NEET Prep Guide 2022* Mohd. Zafar, Moaz Siddiqui, Rachna

Rani, Reetika Gulati, Sonal Chauhan, Maukta Gigras, 2021-11-25

1 NEET Prep Guide is an ultimate guide for the preparation of the medical entrances

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3 Each chapter carries 3 level exercises Preliminary Advanced and Previous question

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5 5 full length Mock Tests Solved papers of CBSE AIPMT NTA NEET for practice

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Physics

Physics and Measurement Kinematics Laws of Motion Work Energy and Power Rotational Motion Gravitation Properties of Solids Mechanical Properties of Fluids Thermal Properties of Matter Thermodynamics Kinetic Theory of Gases Simple Harmonic Motion Wave Motion Electrostatics Capacitance Current Electricity Magnetic Effects of Current Magnetism EM Induction and AC electromagnetic Waves Ray Optics Wave Optics Dual Nature of Matter and Radiation Atoms Nuclear Physics and Radioactivity Electronic Devices Communication Systems

Chemistry

Matter and Laws of Chemical Combinations Chemical Equations and Stoichiometry States of Matter Gaseous and Liquid States States of Matter Solid State Atomic Structure Radioactivity and Nuclear chemistry Chemical Bonding and Molecular Structure Chemical Thermodynamics Solutions Chemical Equilibrium Ionic Equilibrium Redox Reactions Electrochemistry Chemical Kinetics Adsorption Colloidal State Periodic Classification and Periodic Properties Principles and Process of Metallurgy

Hydrogen s p d f Block Elements Coordination Compounds Environmental Chemistry Purification of Organic Compounds Some Basic Principles of Organic Chemistry Hydrocarbons Organic Compounds Containing Halogens Alcohols Phenols and Ether Aldehyde Ketones and Carboxylic Acid Organic Compounds Containing Nitrogen Polymers Biomolecules

Chemistry in Everyday Life

Biology

The Living World Biological Classification Plant Kingdom Animal Kingdom Morphology of Flowering Plants Anatomy of Flowering Plants Structural Organization in Animals Cell Biomolecules Cell Cycle and Cell Division Transport in Plants Mineral Nutrition Photosynthesis in Higher Plants Cellular Respiration Plant Growth and Development Digestion and Absorption Breathing and Exchange of Gases Body Fluids and Circulation Excretion in Animals Locomotion and Movement Neural

Control and Coordination Endocrine System Reproduction in Organisms Social Reproduction in Flowering Plants Human Reproduction Reproductive Health Heredity and Variation Molecular Basis of Inheritance Evolution Human Health and Diseases Strategies for Enhancement in Food Production Microbes in Human Welfare Biotechnology Biotechnology and Its Application Organisms and Population Ecosystem Biodiversity and Its Conservation Environmental Issues **Revise As/A2 Biology** Senior Lecturer in African History John Parker, HarperCollins UK, 2008-10 Level A Level Subject Biology Revise for AS A2 Biology with confidence Providing complete study support throughout the two A Level years this Biology study guide matches the curriculum content and provides in depth course coverage plus invaluable advice on how to get the best results in the exams Providing plenty of exam practice and frequent progress checks and questions to consolidate learning this AS A2 Biology study guide contains invaluable advice and preparation for the exam Included in this book examiner s tips that reveal how to achieve higher marks information presented in a clear and easy to use format exam board labels that allow students to identify content relevant to their course highlighted key points and examiner s hints to offer guidance progress check questions to test recall and understanding sample questions and model answers that reveal what examiners are looking for exam style questions and answers that provide crucial exam practice eal what examiners are looking for exam style questions and answers that provide crucial exam practice eal what examiners are looking for exam style questions and answers that provide crucial exam practice **Complete Physics for NEET(UG) Medium-English** GURCHARANAM ACADEMY PRIVATE LIMITED, Complete Physics Class 11th 12th for NEET UG Medium English *Study Guide with Selected Solutions* Karen Timberlake, 2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems **A Complete Guide to Matriculation at the University of London** William Dodds, 1882

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