STAAR CHEMISTRY REFERENCE MATERIALS



ATOMIC STRUCTURE

Speed of light = (frequency)(wavelength)

$$c = D$$

Energy = (Planck's constant)(frequency)

$$E_{\text{photon}} = hf$$

$$E_{\text{photon}} = \frac{hc}{\lambda}$$

BEHAVIOR OF GASES

Total pressure of a gas = (sum of the partial pressures) of the component gases

$$P_{T} = P_{1} + P_{2} + P_{3} + \dots$$

(Pressure)(volume) = (moles)(ideal gas constant)(temperature)

$$PV = nRT$$

$$\frac{P_1V_1}{n_1V_1} = \frac{P_2V_2}{n_2V_2}$$

(Initial pressure)(initial volume) = (final pressure)(final volume)

$$P_1V_1 = P_2V_2$$

$$\frac{\text{(Initial volume)}}{\text{(Initial temperature)}} = \frac{\text{(final volume)}}{\text{(final temperature)}}$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}$$

$$\frac{V_1}{n_1} = \frac{V_2}{n_2}$$

SOLUTIONS

Molarity = moles of solute liter of solution

$$M = \frac{\text{mol}}{L}$$

Ionization constant of water = $\binom{hydrogen ion}{concentration}$ $\binom{hydroxide ion}{concentration}$

$$K_{w} = [H^{+}][OH^{-}]$$

$$\begin{pmatrix} Volume \ of \\ solution \ 1 \end{pmatrix} \begin{pmatrix} molarity \ of \\ solution \ 1 \end{pmatrix} = \begin{pmatrix} volume \ of \\ solution \ 2 \end{pmatrix} \begin{pmatrix} molarity \ of \\ solution \ 2 \end{pmatrix}$$

$$V_1 M_1 = V_2 M_2$$

pH = -logarithm (hydrogen ion concentration)

$$pH = -log[H^*]$$

THERMOCHEMISTRY

Heat gained or lost = (mass) specific change in heat temperature

$$Q = mc_0 \Delta T$$

Enthalpy of reaction
$$=$$
 $\begin{pmatrix} enthalpy \\ of products \end{pmatrix} - \begin{pmatrix} enthalpy \\ of reactants \end{pmatrix}$

$$\Delta H = \Delta H_f^0$$
(products) $-\Delta H_f^0$ (reactants)

Chemistry Texas Staar Review And Practice Key

Research and Education Association

Chemistry Texas Staar Review And Practice Key:

STAAR EOC Chemistry Assessment Secrets Study Guide Mometrix Media LLC, 2016-10-24 Includes Practice Test Questions STAAR EOC Chemistry Assessment Secrets helps you ace the State of Texas Assessments of Academic Readiness without weeks and months of endless studying Our comprehensive STAAR EOC Chemistry Assessment Secrets study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you ve ever imagined STAAR EOC Chemistry Assessment Secrets includes The 5 Secret Keys to STAAR Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don t Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don t Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families Along with a complete in depth study guide for your specific STAAR exam and much more **STAAR Success Strategies Eoc** Chemistry: STAAR Test Review for the State of Texas Assessments of Academic Readiness Mometrix Media LLC, Staar Exam Secrets Test Prep, 2014-03-31 STAAR Success Strategies EOC Chemistry helps you ace the State of Texas Assessments of Academic Readiness without weeks and months of endless studying Our comprehensive STAAR Success Strategies EOC Chemistry study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you ve ever imagined STAAR Success Strategies EOC Chemistry includes The 5 Secret Keys to STAAR Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don t Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don t Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families Along with a complete in depth study guide for your specific STAAR exam and much more Books in Print ,1993-09 V 1 Authors A D v 2 Authors E K v 3 Authors L R v 4 S Z v 5 Titles A D v 6 Titles E K v 7 Titles L Q v 8 Titles R Z v 9 Out of print out of stock indefinitely v 10 Publishers Holt McDougal Modern Chemistry Texas ,2014-02-15 STAAR EOC World History Assessment Secrets Mometrix Media LLC,2015-02-25 Includes Practice Test Questions STAAR EOC World History Assessment Secrets helps you ace the State of Texas Assessments of Academic Readiness without weeks and months of endless studying Our comprehensive STAAR EOC

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Guesswork Practice Smarter Not Harder Prepare Don t Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Ouestion Benchmark Valid Information Avoid Fact Traps Milk the Ouestion The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don t Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families Along with a complete in depth study guide for your specific STAAR exam and much more The Best Test Preparation for the College Board Achievement Test in Chemistry Research and Education Association, 1987-02-20 Master the SAT II Chemistry Subject Test and score higher Our test experts show you the right way to prepare for this important college exam REA s SAT II Chemistry test prep covers all chemistry topics to appear on the actual exam including in depth coverage of the laws of chemistry properties of solids gases and liquids chemical reactions and more The book features 6 full length practice SAT II Chemistry exams Each practice exam question is fully explained to help you better understand the subject material Use the book's Periodic Table of Elements for speedy look up of the properties of each element Follow up your study with REA s proven test taking strategies powerhouse drills and study schedule that get you ready for test day DETAILS Comprehensive review of every chemistry topic to appear on the SAT II subject test Flexible study schedule tailored to your needs Packed with proven test tips strategies and advice to help you master the test 6 full length practice SAT II Chemistry Subject tests Each test question is answered in complete detail with easy to follow easy to grasp explanations The book s handy Periodic Table of Elements allows for quick answers on the elements appearing on the exam TABLE OF CONTENTS About Research and Education Association Independent Study Schedule CHAPTER 1 ABOUT THE SAT II CHEMISTRY SUBJECT TEST About This Book About The Test How To Use This Book Format of the SAT II Chemistry Scoring the SAT II Chemistry Score Conversion Table Studying for the SAT II Chemistry Test Taking Tips CHAPTER 2 COURSE REVIEW Gases Gas Laws Gas Mixtures and Other Physical Properties of Gases Dalton's Law of Partial Pressures Avogadro's Law The Mole Concept Avogadro's Hypothesis Chemical Compounds and Formulas Mole Concept Molecular Weight and Formula Weight Equivalent Weight Chemical Composition Stoichiometry Weight and Volume Calculations Balancing Chemical Equations Calculations Based on Chemical Equations Limiting Reactant Calculations Solids Phase Diagram Phase Equilibrium Properties of Liquids Density Colligative Properties of Solutions Raoult s Law and Vapor Pressure Osmotic Pressure Solution Chemistry Concentration Units Equilibrium The Law of Mass Action Kinetics and Equilibrium Le Chatelier's Principle and Chemical Equilibrium Acid Base Equilibria Definitions of Acids and Bases Ionization of Water pH Dissociation of Weak Electrolytes Dissociation of Polyprotic Acids Buffers Hydrolysis Thermodynamics I Bond Energies Some Commonly Used Terms in Thermodynamics The First Law of Thermodynamics Enthalpy Hess's Law of Heat Summation Standard States Heat of Vaporization and Heat of Fusion Thermodynamics II Entropy The Second Law of Thermodynamics Standard Entropies and Free Energies Electrochemistry Oxidation and

Reduction Electrolytic Cells Non Standard State Cell Potentials Atomic Theory Atomic Weight Types of Bonds Periodic Trends Electronegativity Quantum Chemistry Basic Electron Charges Components of Atomic Structure The Wave Mechanical Model Subshells and Electron Configuration Double and Triple Bonds Organic Chemistry Nomenclature and Structure Alkanes Alkenes Dienes Alkynes Alkyl Halides Cyclic Hydrocarbons Aromatic Hydrocarbons Aryl Halides Ethers and Epoxides Alcohols and Glycols Carboxylic Acids Carboxylic Acid Derivatives Esters Amides Arenes Aldehydes and Ketones Amines Phenols and Quinones Structural Isomerism SIX PRACTICE EXAMS Practice Test 1 Answer Key Detailed Explanations of Answers Practice Test 2 Answer Key Detailed Explanations of Answers Practice Test 3 Answer Key Detailed Explanations of Answers Practice Test 4 Answer Key Detailed Explanations of Answers Practice Test 5 Answer Key Detailed Explanations of Answers Practice Test 6 Answer Key Detailed Explanations of Answers THE PERIODIC TABLE EXCERPT About Research OR 2 To demonstrate proficiency in Chemistry The SAT II Chemistry exam is designed for students who have taken one year of college preparatory chemistry Who Administers The Test The SAT II Chemistry Subject Test is developed by the College Board and administered by Educational Testing Service ETS The test development process involves the assistance of educators throughout the country and is designed and implemented to ensure that the content and difficulty level of the test are appropriate When Should the SAT II Chemistry be Taken If you are applying to a college that requires Subject Test scores as part of the admissions process you should take the SAT II Chemistry Subject Test toward the end of your junior year or at the beginning of your senior year If your scores are being used only for placement purposes you may be able to take the test in the spring of your senior year For more information be sure to contact the colleges to which you are applying When and Where is the Test Given The SAT II Chemistry Subject Test is administered five times a year at many locations throughout the country mostly high schools To receive information on upcoming administrations of the exam consult the publication Taking the SAT II Subject Tests which may be obtained from your guidance counselor or by contacting College Board SAT Program P O Box 6200 Princeton NJ 08541 6200 Phone 609 771 7600 Website http www collegeboard com Is There a Registration Fee Yes There is a registration fee to take the SAT II Chemistry Consult the publication Taking the SAT II Subject Tests for information on the fee structure Financial assistance may be granted in certain situations To find out if you qualify and to register for assistance contact your academic advisor HOW TO USE THIS BOOK What Do I Study First Remember that the SAT II Chemistry Subject Test is designed to test knowledge that has been acquired throughout your education Therefore the best way to prepare for the exam is to refresh yourself by thoroughly studying our review material and taking the sample tests provided in this book They will familiarize you with the types of questions directions and format of the SAT II Chemistry Subject Test To begin your studies read over the review and the suggestions for test taking take one of the practice tests to determine your area s of weakness and then restudy the review material focusing on your specific problem areas The course review includes the information you need to know when taking the exam Be sure to take the

remaining practice tests to further test yourself and become familiar with the format of the SAT II Chemistry Subject Test When Should I Start Studying It is never too early to start studying for the SAT II Chemistry test The earlier you begin the more time you will have to sharpen your skills Do not procrastinate Cramming is not an effective way to study since it does not allow you the time needed to learn the test material The sooner you learn the format of the exam the more comfortable you will be when you take the exam FORMAT OF THE SAT II CHEMISTRY The SAT II Chemistry is a one hour exam consisting of 85 multiple choice questions The first part of the exam consists of classification questions This question type presents a list of statements or questions that you must match up with a group of choices lettered A through E Each choice may be used once more than once or not at all The exam then shifts to relationship analysis questions which you will answer in a specially numbered section of your answer sheet You will have to determine if each of two statements is true or false and if the second statement is a correct explanation of the first The last section is composed strictly of multiple choice questions with choices lettered A through E Material Tested The following chart summarizes the distribution of topics covered on the SAT II Chemistry Subject Test Topic Percentage Number of Questions Atomic however do not review too much at any one time Concentrate on one problem area at a time by reviewing the questions and explanations and by studying our review until you are confident you completely understand the material Keep track of your scores By doing so you will be able to gauge your progress and discover general weaknesses in particular sections You should carefully study the reviews that cover your areas of difficulty as this will build your skills in those areas TEST TAKING TIPS Although you may be unfamiliar with standardized tests such as the SAT II Chemistry Subject Test there are many ways to acquaint yourself with this type of examination and help alleviate your test taking anxieties Become comfortable with the format of the exam When you are practicing to take the SAT II Chemistry Subject Test simulate the conditions under which you will be taking the actual test Stay calm and pace yourself After simulating the test only a couple of times you will boost your chances of doing well and you will be able to sit down for the actual exam with much more confidence Know the directions and format for each section of the test Familiarizing yourself with the directions and format of the exam will not only save you time but will also ensure that you are familiar enough with the SAT II Chemistry Subject Test to avoid nervousness and the mistakes caused by being nervous Do your scratchwork in the margins of the test booklet You will not be given scrap paper during the exam and you may not perform scratchwork on your answer sheet Space is provided in your test booklet to do any necessary work or draw diagrams If you are unsure of an answer guess However if you do guess guess wisely Use the process of elimination by going through each answer to a question and ruling out as many of the answer choices as possible By eliminating three answer choices you give yourself a fifty fifty chance of answering correctly since there will only be two choices left from which to make your guess Mark your answers in the appropriate spaces on the answer sheet Fill in the oval that corresponds to your answer darkly completely and neatly You can change your answer but remember to completely erase your old answer Any

stray lines or unnecessary marks may cause the machine to score your answer incorrectly When you have finished working on a section you may want to go back and check to make sure your answers correspond to the correct questions Marking one answer in the wrong space will throw off the rest of your test whether it is graded by machine or by hand You don t have to answer every question You are not penalized if you do not answer every question The only penalty results from answering a question incorrectly Try to use the guessing strategy but if you are truly stumped by a question remember that you do not have to answer it Work quickly and steadily You have a limited amount of time to work on each section so you need to work quickly and steadily Avoid focusing on one problem for too long Before the Test Make sure you know where your test center is well in advance of your test day so you do not get lost on the day of the test On the night before the test gather together the materials you will need the next day Your admission ticket Two forms of identification e g driver s license student identification card or current alien registration card Two No 2 pencils with erasers Directions to the test center A watch if you wish but not one that makes noise as it may disturb other test takers. On the day of the test you should wake up early after a good night's rest and have breakfast Dress comfortably so that you are not distracted by being too hot or too cold while taking the test Also plan to arrive at the test center early This will allow you to collect your thoughts and relax before the test and will also spare you the stress of being late If you arrive after the test begins you will not be admitted to the test center and you will not receive a refund During the Test When you arrive at the test center try to find a seat where you feel most comfortable Follow all the rules and instructions given by the test supervisor If you do not you risk being dismissed from the test and having your scores canceled Once all the test materials are passed out the test instructor will give you directions for filling out your answer sheet Fill this sheet out carefully since this information will appear on your score report After the Test When you have completed the SAT II Chemistry Subject Test you may hand in your test materials and leave Then go home and relax When Will I Receive My Score Report and What Will It Look Like You should receive your score report about five weeks after you take the test This report will include your scores percentile ranks and interpretive **Cracking the SAT II.** Theodore Silver, Princeton Review (Firm), 2001-03-15 The Princeton Review realizes information that acing the SAT II Chemistry exam is very different from getting straight As in school They don t try to teach students everything there is to know about chemistry only what they ll need to score higher on the exam There s a big difference InCracking the SAT II Chemistry The Princeton Review will teach test takers how to think like the test makers and Learn test taking strategies that will help students outsmart the test and improve scores Ace the exam by becoming familiar with the format Use the Process of Elimination and the divide and conquer method to solve complicated problems Perfect test taking skills with practice questions and detailed answer explanations This book includes 2 full length simulated SAT II Chemistry exams All of the sample test questions are just like the ones test takers will see on the actual exam and every solution is fully explained Contents Include I Introduction II Test Strategies III Some Basic Stuff Mass Volume Density Pressure Energy

Temperature and Specific Heat IV Elements Atoms and Ions Atoms and Elements V Chemical Reaction and Stoichiometry Molecules The Mole Chemical Reactions Reaction Stoichiometry Entropy Enthalpy Spontaneity and Gibbs Free Energy VI Electron configurations and Radioactivity Electrons and Orbitals Radioactivity VII The Periodic Table and Bonding The Periodic Table More About the Periodic Table Some Important Trends VIII Solids Liquids and Gases Gases Intermolecular Forces Phase Changes Energy and Phase Changes IX Solutions Solutions Concentrations Solubility and Saturation X Kinetics and Equilibrium Kinetics Factors that Affect Reaction Rate Reversible Reactions and Chemical Equilibrium Le Chatelier s Principle XI Acids and Bases Acids and Bases Titration XII Redox and Electrochemistry Oxidation and Reduction Electrochemistry XIII Organic Chemistry Hydrocarbons Functional Groups XIV Laboratory Safety Rules Accuracy Significant Figures Lab Procedures Laboratory Equipment XV Practice Tests **STAAR Success Strategies EOC World History:** STAAR Test Review for the State of Texas Assessments of Academic Readiness Mometrix Media LLC, Staar Exam Secrets Test Prep, 2014-03-31 STAAR Success Strategies EOC World History helps you ace the State of Texas Assessments of Academic Readiness without weeks and months of endless studying Our comprehensive STAAR Success Strategies EOC World History study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you ve ever imagined STAAR Success Strategies EOC World History includes The 5 Secret Keys to STAAR Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don t Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don t Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families Along with a complete in depth study guide for your specific STAAR exam and much more <u>Cracking the SAT.</u> Theodore Silver, 2011 Offers test strategies reviews key concepts of chemistry and provides three full

length practice tests with answers and explanations
CH301 Principles of Chemistry I Brian Anderson, Kate
Biberdorf, Stacy Sparks, 2020-08-05 Practice Problems The University of Texas at Austin
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Formula Calculations and the Mole Stoichiometry Solutions and Aqueous Reactions Heat and Enthalpy Structure and Bonding States of Matter Kinetics Equilibrium Acids and Bases Sollubility Equilibria Electrochemistry Nuclear Chemistry Practice Questions Practice makes perfect Detailed Answer Explanations Figure out where you went wrong and how to improve Studying can be hard We get it That's why we created this guide with these great features and benefits Comprehensive Review Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the test Practice Test Questions We want to give you the best practice you can find That's why the Test Prep Books practice questions are as close as you can get to the actual ACS General Chemistry test Answer Explanations Every single problem is followed by an answer explanation We know it s frustrating to miss a question and not understand why The answer explanations will help you learn from your mistakes That way you can avoid missing it again in the future Test Taking Strategies A test taker has to understand the material that is being covered and be familiar with the latest test taking strategies. These strategies are necessary to properly use the time provided. They also help test takers complete the test without making any errors Test Prep Books has provided the top test taking tips Customer Service We love taking care of our test takers We make sure that you interact with a real human being when you email your comments or concerns Anyone planning to take this exam should take advantage of this Test Prep Books study guide Purchase it today to receive access to ACS General Chemistry review materials ACS General Chemistry exam Test taking Texas Test Prep Revising and Editing Practice Workbook Grade 5 Test Master Press Texas, 2017-10-27 This strategies workbook will give students extensive practice completing revising and editing tasks Students will read full length examples of student writing that contain errors Each passage is followed by multiple choice questions that require students to improve the passage or to correct an error This workbook will develop and improve writing skills as well as prepare students for the revising and editing tasks on the STAAR Writing tests Extensive Revising and Editing Practice Provides practice revising to improve writing and editing to correct errors Revising tasks cover focus organization sentence structure transitions word use strong word choices and more Editing tasks cover grammar usage capitalization punctuation and spelling Covers the skills listed in the writing section of the TEKS Provides Ongoing Skill Development and Practice 15 convenient practice sets allow for ongoing skill development Each practice set contains a full length example of student writing with errors and opportunities for improvement Each set includes both revising and editing tasks Editing tasks require students to identify and correct errors in grammar language usage and writing conventions Revising tasks require students to improve the passage by adding sentences combining sentences rewriting sentences choosing stronger words adding or replacing transition words or phrases and more Format allows for review and feedback after each set Develops the skills required for the revising and editing tasks on the STAAR Writing tests Key Benefits Provides extensive experience completing revising and editing tasks Identifying errors in context improves language and vocabulary skills Develops and improves writing skills

Helps ensure student writing follows standard writing conventions Prepares students for the revising and editing tasks on the STAAR Writing tests Improves performance on the writing tasks on the STAAR tests The MCAT Chemistry Book Ajikumar Aryangat, 2021-01-15 Comprehensive Rigorous Prep for MCAT Chemistry The MCAT Chemistry Book presents a comprehensive review of general chemistry and organic chemistry to prepare for the Medical College Admission Test Part I presents general chemistry concepts and Part II presents organic chemistry concepts The review sections are written in a user friendly manner to simplify and reduce the student's burden when deciphering difficult concepts At the end of each chapter practice questions are included to test the understanding of the key concepts Answers and explanations for the practice questions are provided after the review sections Illustrations and tables are included wherever necessary to focus and clarify key ideas and concepts **Indiana Test Prep Revising and Editing Practice Workbook Grade 5** Test Master Press Texas, 2017-10-27 This workbook will give students extensive practice completing revising and editing tasks Students will read full length examples of student writing that contain errors Each passage is followed by multiple choice questions that require students to improve the passage or to correct an error This workbook will develop and improve writing skills as well as prepare students for the revising and editing tasks on the STAAR Writing tests Extensive Revising and Editing Practice Provides practice revising to improve writing and editing to correct errors Revising tasks cover focus organization sentence structure transitions word use strong word choices and more Editing tasks cover grammar usage capitalization punctuation and spelling Covers the skills listed in the writing section of the TEKS Provides Ongoing Skill Development and Practice 15 convenient practice sets allow for ongoing skill development Each practice set contains a full length example of student writing with errors and opportunities for improvement Each set includes both revising and editing tasks Editing tasks require students to identify and correct errors in grammar language usage and writing conventions Revising tasks require students to improve the passage by adding sentences combining sentences rewriting sentences choosing stronger words adding or replacing transition words or phrases and more Format allows for review and feedback after each set Develops the skills required for the revising and editing tasks on the STAAR Writing tests Key Benefits Provides extensive experience completing revising and editing tasks Identifying errors in context improves language and vocabulary skills Develops and improves writing skills Helps ensure student writing follows standard writing conventions Prepares students for the revising and editing tasks on the STAAR Writing tests Improves performance on the writing tasks on the STAAR tests

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