

O.G.T. SCIENCE TEST: *QUICK STUDY GUIDE*

PLATE TECTONICS

The Earth's outer layer is broken up into 7 **lithospheric plates**. This is sometimes referred to as the **CRUST**.

The plates move due to **convection currents** inside the **ASTHENOSPHERE** or **MANTLE**.

When the plates move, many things can happen including **volcano eruptions**, **earthquakes**, **mountain building**, **seafloor spreading**, etc..

ATOMS

protons = positive charge, found inside the nucleus.

electrons = negative charge, found in the "electron cloud" (surround the nucleus)

neutrons = neutral charge, found inside the nucleus

THE PERIODIC TABLE

The **atomic number** is equal to the **number of protons**. The *number of protons is equal to the number of electrons* in a neutral atom.

The **atomic mass** is equal to the **number of protons plus the number of neutrons**.

The **group number** (found at the top of each column) is equal to the **number of valence electrons**. This is used when drawing *electron dot structures*.

POTENTIAL ENERGY VS. KINETIC ENERGY

potential energy – an object's stored energy

Objects that are higher up or have more mass have a higher potential energy.

kinetic energy – an object's energy while in motion

DENSITY

density = mass/volume

Objects or substances that are **MORE** dense **SINK**.

Objects or substances that are **LESS** dense **RISE**.

NEWTON'S LAWS OF MOTION & GRAVITY

Newton's 1st Law: an object in motion stays in motion and an object at rest stays at rest

Newton's 2nd Law: $F = ma$

Newton's 3rd Law: for every action there is an equal and opposite reaction

Gravity: Under ideal conditions, objects fall to the ground at the same rate.

FOOD WEBS & ENERGY PYRAMIDS

FOOD WEBS show the **feeding relationships** between **plants and animals** in an ecosystem. *Arrows* show the relationships. They show the direction of energy transfer.

ENERGY PYRAMIDS show the **relative amounts of energy** at each **trophic level**. The amount of energy is greatest at the bottom of the pyramid and lowest at the top of the pyramid.

PYRAMID OF NUMBERS shows the **relative number of individuals** at each **trophic level**.

trophic level – each step in a food web or pyramid

SCIENTIFIC INQUIRY

Observations are made by gathering information about events or processes. An **inference** is a **logical interpretation** based on prior knowledge or experience.

A **hypothesis** is a **proposed scientific explanation** for a set of observations.

The variable that is **deliberately changed** is called the **manipulated variable**. The variable that is observed and changes in response to the manipulated variable is called the **responding variable**. A *control group* is not exposed to the independent variable so that it can be used as comparison to the experimental data.

LAST MINUTE NOTES:

Ogt Science Study Guide

Lewis Morris



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Ogt Success Strategies Science Study Guide Mometrix Exam Secrets Test Prep Team, 2015-02-25 OGT Success Strategies Science helps you ace the Ohio Graduation Test without weeks and months of endless studying Our comprehensive OGT Success Strategies Science 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 OGT Success Strategies Science includes The 5 Secret Keys to OGT 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 OGT exam and much more [Guide to Reprints](#) Albert James Diaz, 1977 **State High School Exit Exams**, 2006 [The Literary Guide and Rationalist Review](#), 1949 [Catalog of Copyright Entries. Third Series](#) Library of Congress. Copyright Office, 1962 **Resources in Education**, 1976 **Academy; a Weekly Review of Literature, Learning, Science and Art**, 1910 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910 *Small Schools, Big Ideas* Mara Benitez, Jill Davidson, Laura Flaxman, Ted Sizer, Nancy Faust Sizer, 2009-11-16 Small Schools Big Ideas shows how the principle based and equity focused model from the Coalition of Essential Schools CES can be used to redesign existing schools and create new schools that prepare students for this century's challenges and opportunities Filled with inspirational stories and illustrative examples from schools that have successfully implemented CES principles and practices Small Schools Big Ideas offers information and inspiration needed to Transform schools in order to achieve equitable outcomes for all students Understand various school design options Establish school vision mission and goals to raise educational expectations and results Develop transformational leadership Cultivate a professional learning community Implement student centered teaching learning and curricula Build productive relationships with families and communities Establish strategies for sustainability These recommendations and proven strategies can help educators transform their schools to become truly equitable personalized and academically challenging [Ohio Ogt Science Exam Success: Master the Key Vocabulary of the Ohio Graduation Test in Science](#) Lewis Morris, 2018-12-29 Now you can instantly improve your score on the Ohio Graduation Test in Science Ever wonder why learning comes so easily to some people This remarkable book reveals a system that shows you how to learn faster easier and without frustration By mastering the hidden language of the exam you will be poised to

tackle the toughest of questions with ease We've discovered that the key to success on the Ohio Graduation Test in Science lies with mastering the Insider's Language of the subject People who score high on their exam have a strong working vocabulary in the subject tested They know how to decode the exam vocabulary and use this as a model for test success People with a strong Science Insider's Language consistently Perform better on the Ohio Graduation Test in Science Learn faster and retain more information Feel more confident in their preparation Perform better in the classroom Gain more satisfaction in learning The Ohio Graduation Test in Science guide focuses on the exam's Insider's Language It is an outstanding supplement to a traditional review program It helps your preparation for the exam become easier and more efficient The strategies puzzles and questions give you enough exposure to the Insider Language to use it with confidence and make it part of your long term memory The Ohio Graduation Test in Science Success Guide is an awesome tool to use before a course of study as it will help you develop a strong working Insider's Language before you even begin your review Learn the Secret to Success on the Ohio Graduation Test in Science After nearly 20 years of teaching we discovered a startling fact Most students didn't struggle with the subject they struggled with the language It was never about brains or ability His students simply didn't have the knowledge of the specific language needed to succeed Through experimentation and research he discovered that for any subject there was a list of essential words that when mastered unlocked a student's ability to progress in the subject We called this set of vocabulary the Insider's Words When he applied these Insider's Words the results were incredible His students began to learn with ease He was on his way to developing the landmark series of Books and applications to teach this Insider's Language to students around the world Our books and applications are helpful to any student They are especially helpful to struggling students English language learners and students beginning a course of study The strongest students will also enjoy the puzzle and game aspect of the books In all cases the books provide an enjoyable break from the tedious and mundane experience of traditional test preparation Get your copy today Nuclear Science Abstracts ,1963 *Advances in Rasch Analyses in the Human Sciences* William J. Boone,John R. Staver,2020-07-15 This volume follows the publication of Rasch Analysis in the Human Sciences This new book presents additional topics not discussed in the previous volume It examines key topics such as partial credit analysis of data common person linking computing equating constants investigating discrimination evaluating dimensionality how to better utilize Wright Maps how to design tests and surveys using Rasch theory and many more The book includes activities which can be used to practice the theme of each chapter and to test the reader's understanding of Rasch techniques Beginning and ending with a conversation between two students each chapter provides clear step by step instructions as to how to conduct an analysis using the chapter theme The chapters emphasize applications for the beginner learning Rasch and provide guidance for composing a write up of an analysis for a presentation paper thesis or report This book explores in detail many important yet often rarely discussed topics in Rasch With its easy to read language and engaging format it reaches a wide audience of scientists

clinicians students researchers and psychometricians providing a valuable toolkit for practical users of Rasch analysis Dr Eva Fenwick Clinical Research Fellow Singapore Eye Research Institute SERI Assistant Professor Duke NUS Medical School Singapore It is an easy to read book and provides immediate guidance for those wishing to conduct a Rasch analysis The conversations between students in each chapter provides a welcome introduction to each topic Prof Maik Walpuski University Duisburg Essen Germany The lessons learned in their first book are extended by providing insightful demonstrations of some of the more complex concepts and techniques used in applying Rasch models Dr Michael R Peabody National Association of Boards of Pharmacy Illinois USA I am amazed with the ability of these authors to communicate complicated knowledge and the ability to make this highly complicated knowledge accessible to new learners guiding every step of the way Through this book we get important knowledge about techniques and the different areas of use for Rasch methods in the human sciences This is truly an important book for students and researchers Prof Charlotte Ringsmose Aalborg University Denmark *The Cumulative Book Index* ,1979 A world list of books in the English language

Sociology of Education James Ainsworth,2013-04-11 The sociology of education is a rich interdisciplinary field that studies schools as their own social world as well as their place within the larger society The field draws contributions from education sociology human development family studies economics politics and public policy Sociology of Education An A to Z Guide introduces students to the social constructions of our educational systems and their many players including students and their peers teachers parents the broader community politicians and policy makers The roles of schools the social processes governing schooling and impacts on society are all critically explored Despite an abundance of textbooks and specialized monographs there are few up to date reference works in this area Features Benefits 335 signed entries fill 2 volumes in print and electronic formats providing the most comprehensive reference resource available on this topic Cross References and Suggestions for Further Reading guide readers to additional resources A thematic Reader s Guide groups related articles by broad topic areas as one handy search feature on the e Reference platform which also includes a comprehensive index of search terms facilitating ease of use by both on campus students and distance learners A Chronology provides students with historical perspective on the sociology of education *Research Grants Index* National Institutes of Health (U.S.). Division of Research Grants,1972 [American Book Publishing Record](#) ,2003 **Press, Radio & TV Guide: Australia, New Zealand, and the Pacific Islands** ,2000 [Guide to Reference Books](#) Rita G. Keckeissen,Eileen McIlvaine,1976 International annotated bibliography of reference books includes sections on 1 general reference works bibliographys dictionarys library resources official publications etc 2 the humanities 3 the social sciences 4 historical and geographical aspects by country and 5 pure and applied sciences **Readers' Guide to Periodical Literature** Bertha Tannehill,Anna Lorraine Guthrie,Neltje Marie Tannehill Shimer,1904 An author subject index to selected general interest periodicals of reference value in libraries [Omics Solutions for Endocrine Disorders](#) Anna Halama,Stephen

Atkin,2022-07-18 **A List of Books for College Libraries** Carnegie Corporation of New York. Advisory Group on College Libraries,Charles B. Shaw,1931

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