

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

$\text{density} = \text{mass}/\text{volume}$

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 Short Answer Study Guide

M Carnoy



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Roadmap to the Ohio Graduation Test: Reading Jennifer Viegas, 2005-11-15 As the stakes get higher The Princeton Review continues to prepare students for success Students must now meet performance levels on all five of the Ohio Graduation Tests in order to receive their diplomas Passing rates for field tests are currently 63 percent for mathematics and 75 percent for reading Now more than ever before students will benefit from these essential guides Many students don't get the preparation they need to ace the mathematics and reading exams and that's why the experts at The Princeton Review have thoroughly researched these tests to provide the most comprehensive instruction on the market Each book contains two full length practice tests that are just like the actual exams so students can get all the preparation they need to ace the exams and earn higher grades in school

Popular Science, 1944-01 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

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Transition Planning for Secondary Students with Disabilities Robert W. Flexer, 2008 For Transition Secondary Special Education and Career Education Vocational Transition courses at the undergraduate and graduate level A comprehensive yet practical text for diverse courses that contribute to the transition process Transition Planning for Secondary Students with Disabilities Third Edition describes the varied transition needs of students with disabilities and the myriad options and career paths potentially available The authors approach to transition is treated in a generalized way by cross categorical practical and real transition examples Redesigned to focus more directly on supporting teachers and professionals in developing and implementing transition activities the revision remains comprehensive and provides broad coverage of transition content ranging from the legislative policy base to specific transition activities More so than in previous editions the third edition content reflects transition issues confronted at the high school level problem solving strategies and updated content that reflects the IDEA transition that presents themes to organize each chapter connecting content across chapters and topics derived from the IDEA legislation The resulting integration of policy and practice systematically builds the reader's understanding and provides guidelines for daily transition activities Outcomes of transition services across various middle school secondary and postsecondary programs are viewed in the book from the perspective of post school outcomes and quality of life The combined process and outcome analysis will help the reader determine whether transition programs are doing things right and if they are doing the right things

Alliance News, 1885 **The New York Times Book Review**, 1933-07 Presents extended reviews of noteworthy books short reviews essays and articles on topics

and trends in publishing literature culture and the arts Includes lists of best sellers hardcover and paperback **The Cumulative Book Index** ,1967 A world list of books in the English language **Arts & Humanities Citation Index** ,1983 A multidisciplinary index covering the journal literature of the arts and humanities It fully covers 1 144 of the world s leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals **State Education Journal Index and Educators' Guide to Periodicals Research Strategies** ,2003 An index of state education journals *Whitaker's Books in Print* ,1998 Pediatrics ,1962 Guide to Reprints Albert James Diaz,1967 *The United States Catalog* ,1906 **The United States Catalog** Marion Effie Potter,1903

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