

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.

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

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.

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 = much like 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

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Third Series Library of Congress. Copyright Office,1962 **Resources in Education** ,1976 **English Mechanic and**

Mirror of Science ,1873 **Science** John Michels (Journalist),2009 English Mechanic and Mirror of Science and Art

,1882 **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

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