

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 Study Guide

**Mara Benitez, Jill Davidson, Laura
Flaxman, Ted Sizer, Nancy Faust Sizer**

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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

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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

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