

# 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 1<sup>st</sup> Law: an object in motion stays in motion and an object at rest stays at rest

Newton's 2<sup>nd</sup> Law:  $F = ma$

Newton's 3<sup>rd</sup> 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 Quick Study Guide

**Michael Seilmaier**

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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 Business Reference Catalog ,1995 Fertility

Preservation: From Next-generation Technologies to Clinical Practice Yuting Fan,Sherman Silber,2022-12-05 **English**

**Mechanic and World of Science** ,1873 Science John Michels (Journalist),2011 **Nuclear Science Abstracts** ,1963

**Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1972 **English Mechanic and Mirror of Science** ,1879 English Mechanic and Mirror of Science and Art ,1879 **United States Government**

**Information for Business** ,1994 **Whitaker's Books in Print** ,1998 **Popular Mechanics** ,1938-11 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Genetic Engineering News ,2006 **1st World Conference on Biomass for Energy and Industry**

Spyros Kyritsis,2001 The 1st World Conference and Technology Exhibition on Biomass for Energy and Industry held in Sevilla in June 2000 brought together for the first time the traditional European Conference on Biomass for Energy and Industry and the Biomass Conference of the Americas thus creating the largest and most outstanding event in the worldwide biomass sector The conference elaborated innovative global strategies projects and efficient practice rules for energy and the environment at a key stage in the industry's development New concepts and projects were highlighted to increase the social and political awareness for a change in worldwide resource consumption and to promote economically socially and environmentally sustainable development for the next millennium In 2 volumes the Proceedings include some 470 papers essential to an understanding of current thinking practice research and global developments in the biomass sector a vital reference source for researchers manufacturers and policy makers involved or interested in the use of biomass for energy and industry Scientific American ,1891 National Library Service Cumulative Book Review Index,1905-1974: Titles. [A-Z] National Library Service Corporation,1975

**Aerospace Medicine and Biology** ,1970 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA

**Standard Graphical Symbols** Alvin Arnell,1963 9 000 or more graphic symbols used in engineering and science taken directly from standards published by a specific technical or engineering society To be used to determine the meaning of a symbol or in choosing the appropriate symbol Appendix II is a list of abbreviations to use on drawings and in technical publications Arranged by subject area Indexed Published 1963 The Ohio Chronicle ,2002 **Alliance News**,1885

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