

# 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 = 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 Study Guide

**Lingsheng Yao**

**Ogt Study Guide:**

## Reviewing **Ogt Study Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Ogt Study Guide**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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