

# 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

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:

# Science Study Guide Ogt 2015

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**Science Study Guide Ogt 2015:**

## **Science Study Guide Ogt 2015** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Science Study Guide Ogt 2015**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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