

# 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.*

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