

O.G.T. SCIENCE TEST: *QUICK STUDY GUIDE*

version 2

PLATE TECTONICS

The Earth's outer layer is broken up into 7 **plates**. This is sometimes referred to as the CRUST.

The plates move due to convection currents inside the 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 because they have further to drop*)

kinetic energy – an object's energy while in motion (*the faster it moves, the more kinetic energy it has*)

ATOMS

protons = positive charge, found inside the nucleus

electrons = negative charge, found in the "electron cloud" (outside of the nucleus)

neutrons = neutral charge, found inside the nucleus

DENSITY

density = mass/volume

Substances that are MORE dense SINK.

Substances that are LESS dense RISE.

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.



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

Friction: will slow down an object

Gravity: Under ideal conditions, objects fall to the ground at the same rate; it does not matter if one is heavier than the other

SCIENTIFIC INQUIRY

Observations are made by gathering information using your senses about events or processes. An **inference** is a guess 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.

There should only be one manipulated variable in a scientific experiment.

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. (the organism that the arrow is pointing to eats the organism the arrow is coming from)

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.

trophic level – each step in a food web or pyramid

Prefixes/Suffixes to know

bio – life (*biology is the study of life*)

geo – earth (*geology is the study of the earth*)

hetero – different (*heterozygous means different genes*)

homo – same (*homozygous means same/like genes*)

a – not (*abiotic means not living*)

thermo – heat/temperature (*thermometer*)

eco – environment/outdoors (*ecology is study of outdoors*)

chemo – chemical (*chemosynthesis is creating chemicals*)

photo – light (*photography uses light to take pictures*)

synthesis – creates (*photosynthesis uses light to create food*)

Ogt Science And Technology Study Guide

Hussin A.Rothana



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