

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 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

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 Study Guide Science Answer

Cindy Weikart



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Omics Solutions for Endocrine Disorders Anna Halama,Stephen Atkin,2022-07-18 **Homeland Security** George Haddow,Jane Bullock,Damon Coppola,2017-02-04 Homeland Security The Essentials Second Edition concisely outlines the risks facing the US today and the structures we have put in place to deal with them The authors expertly delineate the bedrock principles of preparing for mitigating managing and recovering from emergencies and disasters From cyberwarfare to devastating tornadoes to car bombs all hazards currently fall within the purview of the Department of Homeland Security yet the federal role must be closely aligned with the work of partners in the private sector The book lays a solid foundation for the study of present and future threats to our communities and to national security also challenging readers to imagine more effective ways to manage these risks Highlights and expands on key content from the bestselling book Introduction to Homeland Security Concisely delineates the bedrock principles of preparing for mitigating managing and recovering from emergencies and disasters Provides coverage of the Boston Marathon bombing Explains the border security immigration and intelligence functions in detail Analyzes the NIST Cybersecurity Framework for critical infrastructure protection Explores the emergence of social media as a tool for reporting on homeland security issues **The Ohio Graduation Test** Cindy Weikart,2004-01-01 Ancillary materials by Hollandays Publishing Corporation were also created by Ohio educators OGT Question of the Day Overheads Start each class session with a one to five minute review question Includes 100 questions per

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