

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:

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1. Understanding the eBook Science Study Guide Ogt 2015
 - The Rise of Digital Reading Science Study Guide Ogt 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Study Guide Ogt 2015
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Study Guide Ogt 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Science Study Guide Ogt 2015
 - Personalized Recommendations
 - Science Study Guide Ogt 2015 User Reviews and Ratings
 - Science Study Guide Ogt 2015 and Bestseller Lists
5. Accessing Science Study Guide Ogt 2015 Free and Paid eBooks
 - Science Study Guide Ogt 2015 Public Domain eBooks
 - Science Study Guide Ogt 2015 eBook Subscription Services
 - Science Study Guide Ogt 2015 Budget-Friendly Options

6. Navigating Science Study Guide Ogt 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Science Study Guide Ogt 2015 Compatibility with Devices
 - Science Study Guide Ogt 2015 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Study Guide Ogt 2015
 - Highlighting and Note-Taking Science Study Guide Ogt 2015
 - Interactive Elements Science Study Guide Ogt 2015
8. Staying Engaged with Science Study Guide Ogt 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Study Guide Ogt 2015
9. Balancing eBooks and Physical Books Science Study Guide Ogt 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Study Guide Ogt 2015
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Science Study Guide Ogt 2015
 - Setting Reading Goals Science Study Guide Ogt 2015
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Science Study Guide Ogt 2015
 - Fact-Checking eBook Content of Science Study Guide Ogt 2015
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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