

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:

Science Ogt Study Guide 2015

AW Chickering



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Decoding **Science Ogt Study Guide 2015**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Science Ogt Study Guide 2015**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Science Ogt Study Guide 2015

1. Understanding the eBook Science Ogt Study Guide 2015
 - The Rise of Digital Reading Science Ogt Study Guide 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Ogt Study Guide 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 Ogt Study Guide 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Science Ogt Study Guide 2015
 - Personalized Recommendations
 - Science Ogt Study Guide 2015 User Reviews and Ratings
 - Science Ogt Study Guide 2015 and Bestseller Lists

5. Accessing Science Ogt Study Guide 2015 Free and Paid eBooks
 - Science Ogt Study Guide 2015 Public Domain eBooks
 - Science Ogt Study Guide 2015 eBook Subscription Services
 - Science Ogt Study Guide 2015 Budget-Friendly Options
6. Navigating Science Ogt Study Guide 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Science Ogt Study Guide 2015 Compatibility with Devices
 - Science Ogt Study Guide 2015 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Ogt Study Guide 2015
 - Highlighting and Note-Taking Science Ogt Study Guide 2015
 - Interactive Elements Science Ogt Study Guide 2015
8. Staying Engaged with Science Ogt Study Guide 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Ogt Study Guide 2015
9. Balancing eBooks and Physical Books Science Ogt Study Guide 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Ogt Study Guide 2015
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Science Ogt Study Guide 2015
 - Setting Reading Goals Science Ogt Study Guide 2015
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Science Ogt Study Guide 2015
 - Fact-Checking eBook Content of Science Ogt Study Guide 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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