# 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 moderns)

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 - and 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 feeing 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.

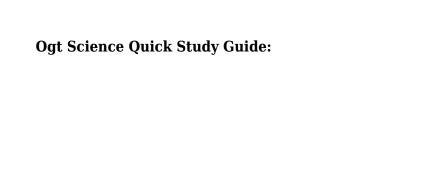
A hypothesis is a proposed scientific explanation for a set of observations.

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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**RJ Shavelson** 



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# **Table of Contents Ogt Science Quick Study Guide**

- 1. Understanding the eBook Ogt Science Quick Study Guide
  - The Rise of Digital Reading Ogt Science Quick Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Ogt Science Quick Study Guide
  - Exploring Different Genres
  - $\circ\,$  Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ogt Science Quick Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ogt Science Quick Study Guide

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

- Fact-Checking eBook Content of Ogt Science Quick Study Guide
- 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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