

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.

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

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.

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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interpretation Colour figures and data sets are provided on the website at <http://www.garlandscience.com/9780415378536>

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Table of Contents Ogt Science And Technology Study Guide

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

- Ogt Science And Technology Study Guide Public Domain eBooks
- Ogt Science And Technology Study Guide eBook Subscription Services
- Ogt Science And Technology Study Guide Budget-Friendly Options

6. Navigating Ogt Science And Technology Study Guide eBook Formats

- ePUB, PDF, MOBI, and More
- Ogt Science And Technology Study Guide Compatibility with Devices
- Ogt Science And Technology Study Guide Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Ogt Science And Technology Study Guide
- Highlighting and Note-Taking Ogt Science And Technology Study Guide
- Interactive Elements Ogt Science And Technology Study Guide

8. Staying Engaged with Ogt Science And Technology Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ogt Science And Technology Study Guide

9. Balancing eBooks and Physical Books Ogt Science And Technology Study Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Ogt Science And Technology Study Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Ogt Science And Technology Study Guide

- Setting Reading Goals Ogt Science And Technology Study Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ogt Science And Technology Study Guide

- Fact-Checking eBook Content of Ogt Science And Technology 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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