

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

$\text{density} = \text{mass}/\text{volume}$

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

Katrin Zwirglmaier



Ogt Study Guide:

The book delves into Ogt Study Guide. Ogt Study Guide is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ogt Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Ogt Study Guide
- Chapter 2: Essential Elements of Ogt Study Guide
- Chapter 3: Ogt Study Guide in Everyday Life
- Chapter 4: Ogt Study Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Ogt Study Guide. This chapter will explore what Ogt Study Guide is, why Ogt Study Guide is vital, and how to effectively learn about Ogt Study Guide.
3. In chapter 2, this book will delve into the foundational concepts of Ogt Study Guide. This chapter will elucidate the essential principles that need to be understood to grasp Ogt Study Guide in its entirety.
4. In chapter 3, this book will examine the practical applications of Ogt Study Guide in daily life. The third chapter will showcase real-world examples of how Ogt Study Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Ogt Study Guide in specific contexts. This chapter will explore how Ogt Study Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Ogt Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Ogt Study Guide.

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