Name:_____   Date:_____

Regents Earth Science

Sunspot Analysis Lab

Introduction: Photographs of the sun show dark areas on its surface which are believed to be due to magnetic storms that take place within the sun. These spots are actually very bright, however they appear darker than the surrounding areas on the Sun because they are cooler. The number and pattern of these spots change with time.

When the data collected over many of years are graphed, a pattern emerges. This picture-like representation makes it easier to see relationships that are not obvious from a column of numbers.

Objective: You will see how graphing data can aid in deciphering patterns and predicting future events.

Vocabulary: Using the vocabulary terms found in your notes, fill in the following blanks with the correct terms.

When you are graphing data you always plot the _____ variable on the x-axis. The variable that is being measured is known as the _____ variable and is plotted on the y-axis.

After the data is plotted a pattern can sometimes emerge. If there is a connection, or relationship, between two or more pieces of data we say there is a _____ between the variables. If a relationship occurs between variables you can use data to make predictions about the future. This is known as _____. There are several types of relationships that can emerge when you graph data. A _____ relationship is when an increase in one variable results in an increase in the other variable, while an _____ relationship is when an increase in one variable results in the decrease of another variable. If there is a repeating pattern we say there is a _____ relationship between the data.

Procedure:

1. Using an X, plot the data found in the table on the following page on graph found on page three. After you have plotted all the data points, connect each X with a smooth line.

2. Using the data given, graph the number of sunspots in the years from 1959 to 2009.

Sunspot Analysis Lab Answers

Victor M. Corman

Sunspot Analysis Lab Answers:

Sunspot Analysis Lab Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Sunspot Analysis Lab Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Sunspot Analysis Lab Answers

1. Understanding the eBook Sunspot Analysis Lab Answers
    - The Rise of Digital Reading Sunspot Analysis Lab Answers
    - Advantages of eBooks Over Traditional Books
2. Identifying Sunspot Analysis Lab Answers
    - 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 Sunspot Analysis Lab Answers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Sunspot Analysis Lab Answers
    - Personalized Recommendations
    - Sunspot Analysis Lab Answers User Reviews and Ratings
    - Sunspot Analysis Lab Answers and Bestseller Lists

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