

# GEOLOGIC TIME SCALE

Read the text, and then answer the questions that follow.

Have you ever wondered how old our planet is? Scientists certainly have! Scientists who specialize in studying Earth's physical structure and history, called **geologists**, estimate that Earth is about 4.6 billion years old. This estimate is based on a thorough analysis of rock layers and the fossil record.

Geologists describe the age of a rock in two ways: relative age and absolute age. The **relative age** of a rock is its age compared to the ages of other rocks. **Absolute age** is the number of years that have passed since the rock formed, and it is calculated through a process called radioactive dating. By studying clues in Earth's rocks and determining their ages, geologists can organize past events into a sequence called the **geologic time scale**.



To find a rock's relative age, geologists use a number of different clues:

- The **law of superposition** states that, in undisturbed horizontal sedimentary rock layers, the oldest layer is at the bottom and the youngest layer is at the top.
- Lava that hardens on Earth's surface forms an igneous **extrusion**. An extrusion is younger than the rock it covers.
- Magma that pushes into layers of rock below Earth's surface and hardens forms an igneous **intrusion**. An intrusion is younger than the rock around it.
- A **fault** is a break in Earth's crust caused by forces inside the Earth. A fault is always younger than the rock it cuts through.
- **Index fossils** are fossils of an organism that was widely distributed and existed for a geologically short period of time. Geologists infer that rock layers with matching index fossils are the same age.

Use the information you learned from the passage to answer the questions below.

1. Look at the image to the right. A fault was created in the rock layers during an earthquake. Did the earthquake occur before or after sedimentary rock layers A, B, and C were deposited? Explain.



2. A geologist finds the same type of index fossil in a rock layer in Kansas and in a rock layer over 2,000 miles away in the Himalayan foothills. What can she infer about the ages of the two rock layers?

# Geologic Time Scale Wordsearch Answer Key

**Richard H. Moyer**



## Geologic Time Scale Wordsearch Answer Key:

**General Science** Richard H. Moyer,1986      **Bulletin of the Atomic Scientists** ,1973-11 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      **Bulletin of the Atomic Scientists** ,1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      *Essentials of Geology* James Stewart Monroe,Reed Wicander,2002 Wicander Monroe s *ESSENTIALS OF GEOLOGY* 3rd Edition continues the authors tradition of presenting the basic principles and processes of geology in a clear interesting and concise narrative It focuses on how geology relates to the human experience through frequent use of real life examples and applications Lively writing and the use of analogies draw students into the material while a completely integrated pedagogical structure enhances students comprehension of the important and difficult concepts Throughout the text emphasizes the connections between the content and students lives      Bulletin of the Atomic Scientists ,1970-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      **Bulletin of the Atomic Scientists** ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      Bulletin of the Atomic Scientists ,1959-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      **Bulletin of the Atomic Scientists** ,1961-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      The Atlantic ,1946      **Webster's Third New International Dictionary of the English Language, Unabridged** Philip Babcock Gove,1971      Webster's Third International Dictionary of the English Language, Unabridged ,1961      **Current Index to Journals in Education** ,1977      **The Atlantic Monthly** ,1947

## The Enigmatic Realm of **Geologic Time Scale Wordsearch Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Geologic Time Scale Wordsearch Answer Key** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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