



## Environmental Geologic Age

The practice of this science is an active geologic dating technique to determine the age of rock layers. When dating via carbon geologists use radiocarbon and geochronology techniques. While both will dating can only support but not substantiate the accuracy of the radiocarbon dating technique.

### 1. Relative Dating Techniques

Relative dating is determining the relative age of a rock layer or geologic feature. This is done by using the principle of superposition. The principle of superposition states that in an undisturbed sequence of rock layers, the oldest layer is at the bottom and the youngest layer is at the top. This is the basic principle of relative dating. Other relative dating methods include using fossils and stratigraphic correlation. Stratigraphic correlation is the process of comparing rock layers in different areas to determine their relative age.

**Principle of Superposition:** In an undisturbed sequence, the oldest layer is at the bottom and the youngest layer is at the top. This is the basic principle of relative dating. Other relative dating methods include using fossils and stratigraphic correlation. Stratigraphic correlation is the process of comparing rock layers in different areas to determine their relative age. This principle, like the principle of uniformitarianism, is a basic principle of geology.

**Principle of Original Horizontality:** Sediments are deposited in horizontal layers and slowly change into rock. If they are not horizontal, they have been deformed after deposition.

**Law of Cross-Cutting:** A rock layer that cuts across another rock layer is younger than the rock it cuts across.

**Principle of Lateral Continuity:** A rock layer that is continuous across a wide area is younger than the rock it cuts across.

**Relative Dating:** Relative dating is the process of determining the relative age of a rock layer or geologic feature. This is done by using the principle of superposition. The principle of superposition states that in an undisturbed sequence of rock layers, the oldest layer is at the bottom and the youngest layer is at the top. This is the basic principle of relative dating.

**Geochronology:** Geochronology is the science of determining the absolute age of a rock layer. This is done by using radiometric dating techniques. Radiometric dating is the process of measuring the decay of radioactive isotopes to determine the age of a rock layer.

### Types of Geochronology

**Radioactive Dating:** Radioactive dating is the process of measuring the decay of radioactive isotopes to determine the age of a rock layer. This is done by using radiometric dating techniques. Radiometric dating is the process of measuring the decay of radioactive isotopes to determine the age of a rock layer.

**Carbon Dating:** Carbon dating is the process of measuring the decay of carbon-14 to determine the age of a rock layer. This is done by using radiometric dating techniques. Carbon dating is the process of measuring the decay of carbon-14 to determine the age of a rock layer.

**Stratigraphic Dating:** Stratigraphic dating is the process of determining the relative age of a rock layer or geologic feature. This is done by using the principle of superposition. Stratigraphic dating is the process of determining the relative age of a rock layer or geologic feature.

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### 2. The Geologic Time Scale

The geologic time scale is a system of chronological dating that classifies geological strata into time units. It is the primary tool of geologists, and it is used to describe the timing of events in Earth's history. The time scale is divided into eons, eras, periods, and epochs. The time scale is based on the principle of superposition. The principle of superposition states that in an undisturbed sequence of rock layers, the oldest layer is at the bottom and the youngest layer is at the top. This is the basic principle of relative dating.

# Lab Manual Exercise 6 Determining Geologic Ages

**Yijin Wang**

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