

Three types of rock

Igneous Metamorphic Sedimentary

Rock- a mixture of more than one mineral

Rocks can also have glass or organic particles in them.







Sedimentarymade on land from weathering or from effects of ocean water







Weathering

Physical, chemical or biological breakdown of rocks and minerals into smaller sized particles.

Erosion

The removal of weathered sediment or rocks by the forces of wind, water, and ice.

Mass Wasting

General term that describes the downslope movement of sediment, soil, and rock material

Why is the sequence of rocks in a rock cross-section important?

- 1. Helps with dating
- 2. Can tell what happened at different times



How do we date rocks?

Sof#

Absolute dating Radiometric Carbon Dating



How do we date rocks?

• We use <u>ratiometric dating</u> to date rocks.

What is radiometric dating?

Some elements in rocks are ratioactive, meaning they are unstable and slowly break down into other elements.

The speed at which these elements decay is slow but constant.



Ex. Potassium-40 is an isotope that takes 1.3 billion years to break down to half of its original amount (decays into Calcium-40).

Ex. Carbon-14 is an isotope that takes 5730 years to break down to half of its original amount. (decays into Nitrogen-14)

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