

Using a diagram, show how typical unconformities are formed.

Discuss the contributions of Bishop Usher and James Hutton

Describe the difference between uniformitarianism and catastrophism.

List three things geologists use to divide the rock record into eras, periods, and epochs

Make a diagram showing how a parent isotope becomes a daughter isotope.

Describe the difference between absolute dating and relative dating

List the requirements for something to be an index fossil

List at least 3 radioactive elements and the age of the rocks they're used to date.

List the requirements for a fossil to form.

Write the equation for solving a half-life problem, with an explanation of variables. Also draw a table that can be used instead of the equation.

List and describe the four major geologic principles of relative dating.

Describe the 3 different types of unconformities; use diagrams

Construct a diagram showing the geologic time scale. Include eras, periods, and epochs (for the Cenozoic only). Include major occurrences such as mass extinctions, breakup of Pangaea/Gondwanaland, building of mountain chains, dominant species, and the evolution of reptiles, mammals, and humans. Also include the estimated years before present for each time period.