

Planet Earth: Topic 9 - Geologic Time Practice Quiz

1. Layers of sedimentary rock stay in their original position, with the newest layers on the top and the older layers on the bottom. These layers of rock are called ...

indexing

parent rock

rock strata

superimposed

2. Scientists studying rock layers were mystified to find fossils that helped to determine the relative age of the layer of rock they were studying. These fossils are called ...

petrified fossils

intensified fossils

parent fossils

index fossils

3. Daughter material and parent material refer to the half-life parts remaining, in the process of radiometric dating, to calculate the absolute age of rocks. If the daughter material is 87.5% and the parent material is 12.5%, the rock has undergone ...

1 half-life

2 half-lives

3 half-lives

4 half-lives

4. Radiometric dating and radiocarbon dating are related because ...

radiometric dating is a form of radiocarbon dating

radiocarbon dating is a form of radiometric dating

half-life is the same for carbon and uranium

traces of carbon-14 can also be found in radiometric dating

5. In the Geologic Time Scale, dinosaurs appeared during this period.

Cretaceous

Jurassic

Triassic

Permian

Check your [Answers](#)

Planet Earth: Topic 9 - Geologic Time Period

Answers

1. Layers of sedimentary rock stay in their original position, with the newest layers on the top and the older layers on the bottom. These layers of rock are called ...

xindexing

xparent rock

rock strata

(Text p. 423) The term used is strata.

xsuperimposed

2. Scientists studying rock layers were mystified to find fossils that helped to determine the relative age of the layer of rock they were studying. These fossils are called ...

xpetrified fossils

xintensified fossils

xparent fossils

index fossils

(Text p. 423) A fossil used to determine the relative age of the rock layer is called an index fossil.

3. Daughter material and parent material refer to the half-life parts remaining, in the process of radiometric dating, to calculate the absolute age of rocks. If the daughter material is 87.5% and the parent material is 12.5%, the rock has undergone ...

x1 half-life **1st half life is 50% of each**

x2 half-lives ... **2nd half life is 75% daughter and 25% parent**

3 half-lives

(Text p. 424) ... 3rd is 87.5% daughter and 12.5% parent, and the

x4 half-lives ... 4th is 93.75% daughter and 6.25% parent

4. Radiometric dating and radiocarbon dating are related because ...

xradiometric dating is a form of radiocarbon dating

radiocarbon dating is a form of radiometric dating

(Text p. 424) First sentence, last paragraph.

xhalf-life is the same for carbon and uranium

xtraces of carbon-14 can also be found in radiometric dating

5. In the Geologic Time Scale, dinosaurs appeared during this period.

xCretaceous

xJurassic

Triassic

(Text p. 395) Dinosaurs dominated the Earth during the Jurassic period, but first appeared in the Triassic Period

xPermian