

Name _____ class ___ due date ___

Study Guide to unit 4 I-check quiz

1. Geologists have discovered a canyon in Canada. The geologists were able to determine the ages of the samples shown. Use the Geologic Time Scale to determine the periods in which the canyon rocks were formed.

Scotia shale _____

Quebec limestone _____

Geological Time Scale

Era	Period	Years before present (million years ago)
Cenozoic	Quaternary	1.6
	Tertiary	66
Mesozoic	Cretaceous	144
	Jurassic	208
	Triassic	245
Paleozoic	Permian	286
	Pennsylvanian	320
	Mississippian	360
	Devonian	408
	Silurian	438
	Ordovician	505
Precambrian	Cambrian	570
		4500

Information from New Canyon in Canada

Rock name	Age (million years ago)
Scotia Shale	286 to 240
Quebec Limestone	208 to 165

2. Why do scientists divide up geologic time into eras and periods?

3. Why aren't eras and periods not consistent lengths of time?

4. What is the starting point of geologic time/to when?

5. If you correlate rock layers by index fossils will it give you an idea of the age of the sediment that formed the rock?

6. Provide some reasons why some ancient animals or plants would not be discovered as a fossil.

7. Describe the ancient environment that led to the formation of Gifford Shale if trilobite fossil was found in it.