NOTES: Geologic Time Scale Topic 5 (History of the Earth)

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Earth Scientists	– A scientist who s	tudies the Earth's crust	as well as the
processes and history the			
Earth's surface in order t and bacteria		tudies fossil remains four form such as: plants, ar	
Stratigraphy A branch of geology de			
Geologists assume the _ ones,	ro unless some type of	cklayers are on disturbance occurs.	of the
Called the			
Relative Age The strata of sedimentar		n determining their	
Relative age determines	s the "relative" order	[.] of past events but not	the
Like saying you're relativ	ely younger than yo	ur grandfather	
Relative Age Strata is sometimes			
Here we see a fault (E) c	and an igneous intrus	sion (D)	
See if you can determine	e the order of the str	ata in this diagram.	
Determining relative age of these		imes very	because
Fossils Preserved other organisms from the		of animals, p	olants, and
	-	s documented by all fo	ssils,
preserved in sedimentar	y rockstrata		
Provides a	of past ever	of past events in Earth's geological history	

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Index Fossils Special fossils called "index fossils" indicate to geologists the in geological time.			
This is another to determine the o	of rocks.		
Characteristics of Index Fossils 1.			
Fossil Record and Rock Strata Index fossils are used to the age of the re	ockstrata.		
If two different rock strata in different areas on Earth contain the same index fossils, then the strata are probably the same			
Absolute Age Most accurate form of dating, also call	dating.		
Uses the of radioactive elements to find the age of a rock or fossil	}		
This relies on the property of, which is the, which is thean element takes to decay.			
Geologic Time Scale All of Earth's geological history represented on a time chart			
Based on and the			
Broken into different time chunks, the largest being the Eon, then,,, and Epoch.			
stands for millions of years. This diagram is not to scale.			
Geologic Time Scale Look how much of the Earth's geologic history falls into Hadean, A and Proterozoic (together called) -			
If this were a clock, humans show up			
Notice some of the important events which happened over			

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Precambrian Broken into parts Hadean, Archean, and Proterozoic			
Marks the beginning of Earth approximately			
Oldest rock fragment on Earth contains a mineral, zircon, that is 4.4 m.y.(found in)			
Very primitive life forms: one-celled animals, bacteria,			
Paleozoic Era () Marks the formation of the super continent,			
Life developed Marine plants and invertebrates Fish and ferns			
at the end of Paleozoic			
Mesozoic Era () Increased life forms including:			
Small mammals Birds Conifers and			
Rocks in the Petrified Forest in were deposited during this time.			
Anotherat end of Mesozoic.			
Cenozoic Era () Currently in this Era			
Development of: Large			
Periods of			

Periods of ______played a role in the formation of the geological features visible on Earth today.

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Living Organisms Fossils of previous geologic history.	are used to further divide Earth's
Life on Earth has a lot in 4.6 b.y.	orquite
We live in the	which is further broken down into
In which Epoch do we live?	
Geologic Time Scale During the Earth's 4.6 billion years, i	t has suffered major mass extinctions.
An extinction is the end of a	, usually a species.
Dinosaur Extinction Most recent extinction is called the happened ago.	Cretaceous-Tertiary extinction event
and the	changes are thought to have dinosaurs.
Awc	as probably the final blow.