# Geological

# **Overview**

by

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### The Great Geological Eras

The Great Geological Eras and Periods are approximated and summarized in the following Tables:

The Great Geological Eras And Periods			
mya - Million Years Ago kya - Thousand Years Ago			
Date	Era	Period	Comments
Present		Quaternary	Age of Modern Humans
То		Holocene 12 kya - Present	c.100 kya Homo
2.5 mya		Pleistocene 2.5 mya - c.12 kya	Sapiens
	Cenozoic	Tertiary	
2.5	Present	Tertiary subdivisions:	Age of the Mammals Australian Marsupials
2.5 mya	65 mya	Pliocene - 5-2.5 mya	South American specialized plant
То		Miocene - 23-5 mya Oligocene - 34-23 mya	eaters South American
65 mya		Eocene - 57-34 mya Palaeocene - 65-57 mya	Marsupial Meat Eaters 1st Hominids
65 mya	Mesozoic		Last Dinosaurs
То	65 mya	Cretaceous	140 mya First Birds
145 mya	То		FIISL DIIUS

#### The Great Geological Eras And Periods

mya - Million Years Ago kya - Thousand Years Ago

Date	kya - Thousal <b>Era</b>	Period	Comments
145 mya	245 mya		Dinosaurs Dominate the Land
То		Jurassic	190 mya Early Mammals
208 mya			150 mya Archaeopteryx
			200 mya Origin of Dinosaurs
208 mya To		Triassic	230 mya First Mammals
245 mya		Hidəsic	210 mya Sea Reptiles
			200 mya Flying Reptiles
245 mya			Age of Mammal-like Reptiles
To 290 mya		Permian	(Including First Plant- eaters)
290 mya			Age of Amphibians
То		Carboniferous	First Reptiles
362 mya			300 mya Coal Forests
362 mya	Palaeozoic		The Age of Fishes
To	245 mya To 570 mya	Devonian	First Back-boned Land Animals
408 mya			380 mya First Insects
408 mya			
То		Silurian	First Land Plants
439 mya			
439 mya			First Vertebrates
To 510 mya		Ordovician	500 - 435 mya Trilobites Etc

#### The Great Geological Eras And Periods

mya - Million Years Ago kya - Thousand Years Ago

Date	Era	Period	Comments
510 mya		Ozvelsia	First Animals with Hard Parts
To 570 mya		Cambrian	First Fish 500 mya
570 mya			
То		Vendian	First Soft Bodied Animals
610 mya			
	Proterozoic		1,000 mya
610 mya	570 mya		First Multi-cellular Animals
То	То		670 mya
2,500 mya	2,500 mya		First Animal Fossils
2,500 mya	Archaean 2,500 mya		3,500 mya First Bacteria and Algae
То			Oldest known Fossils
4,000 mya	To 4,000 mya		3,800 mya Oldest known rocks on Earth
4 000 mya	Hadean		
4,000 mya	4,000 mya		Orbita 15 II
To	То		Origin of Earth
4,600 mya	4,600 mya		

# **Alternative Designation**

Some authorities use the following alternative designations.

Alternative Designation		
mya - Million Years Ago kya - Thousand Years Ago		
Period	Description	
	Earth formed 4,600 mya	
Pre-Cambrian 4,600-570 mya	First living things 3,200 mya	
	First animal fossils c.670 mya	
Cambrian 570-510 mya	First fish 500 mya	
Ordovician 5100-439 mya	Many Trilobites, and other animals without backbones	
Silurian 4395-408 mya	First land plants 400 mya	
Davisian 400 202 mus	First insects 380 mya	
Devonian 408-362 mya	First amphibians 350 mya	
	Early reptiles 300 mya	
Carboniferous 362-290 mya	Coal forests 300 mya	
Permian 290-245 mya	More reptiles 280 mya	
	Early mammals 230 mya	
Triassic 245-208 mya	Sea reptiles 210 mya	
111a33ic 243-200 iiiya	Flying reptiles 200 mya	
	First dinosaurs 200 mya	
Lunaaria 200 445 muus	Early mammals 190 mya	
Jurassic 208-145 mya	Archaeopteryx 150 mya	
Cretaceous 145-65 mya	First birds 140 mya	
Delegacene 65 55 m/s	Dinosaurs die out 65 mya	
Palaeocene 65-55 mya	Mammals take over	
F	First horses 65 mya	
Eocene 55-38 mya	First elephants 40 mya	
Oligocene 38-22 mya	First apes	
Miocene 22-6 mya	First seals, deer, giraffes 20 mya	
Pliocene 6-c.2.5 mya	Man-apes 5 mya	
Plaistacana a 2.5 mya ta 12 kwa yaara aga	First humans beings 2 mya	
Pleistocene c.2.5 mya to 12 kya years ago	Ice age begins c.18 kya years ago	

Alternative Designation		
mya - Million Years Ago kya - Thousand Years Ago		
Period	Description	
Holocene 12 kya years ago until now	Last ice age ends c.10 kya years ago	
	First farmers c.10 kya years ago	

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# **Era Name Meanings**

Era Name Meanings		
mya - Million Years Ago kya - Thousand Years Ago		
Era	Meaning	
Cambrian	This period gets its name from Cambria, the Roman name for Wales.	
Ordovician	Named after the Ordovices - a Celtic tribe who lived in Wales.	
Silurian	Takes its name from the Silures - a Celtic tribe, which lived in the Welsh borders in Roman Britain.	
Devonian	The name comes from Devonshire - a county in the southwest of Britain.	
Carboniferous	When most of the coal was formed. "Carbo" is the Latin for "coal".	
Permian	Named after the Perm province in the Ural Mountains, USSR.	
Triassic	From three rock layers in Germany. "Treis" is the Greek for "three".	
Jurassic	Called after the Jura mountains in Switzerland and France.	
Cretaceous	Named after chalk laid down in North America, Australia, and Europe. "Creta" means "chalk" in Latin.	
	The next five periods are called the Tertiary, and are also known as the "age of the mammals".	
Tertiary	The five Tertiary periods are:  Palaeocene - 65-57 mya Eocene - 57-34 mya Oligocene - 34-23 mya Miocene - 23-5 mya Pliocene - 5- 2.5 mya	
	The last two eras, called Quaternary, are when the remains of human beings and their artefacts are found.	
Quaternary	The Two Quaternary periods are:  Pleistocene 2.5 mya - c.12 kya  Holocene 12 kya - Present	

End

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