

Geologic Ages of Earth History

Dates are approximate

Era	Period	Sub-period	Epoch	Age	Approx Years Ago	Comment
Cenozoic	Quaternary	Holocene			0 to 2m	Humans development
		Pleistocene				5th Ice Age
	Tertiary	Neogene	Pliocene	Piacenzian	2 to 5m	-
				Zanclian		
			Miocene	Messinian	5 to 24m	
				Tortonian		
				Serravallian		
				Langhian		
		Burdigalian				
		Aquitanian				
		Paleogene	Oligocene	Chattian	24 to 37m	Whales
				Rupelian		
	Eocene		Priabonian	38 to 58m		
			Bartonian			
Lutetian						
Ypresian						
Paleocene	Thanetian	58 to 66m	Dinosaurs become extinct, birds			
	Danian					
Mesozoic	Cretaceous	Senonian	Maastrichtian	66 to 144m	Coal starts to form	
			Campanian			
			Santonian			
			Coniacian			
		Gallic	Turonian			
			Cenomanian			
			Albian			
			Aptian			
		Barremian				
	Neocomian	Hauterivian				
		Valanginian				
	Berriasian					
	Jurassic	Malm	Tithonian	144 to 208m	1st Birds, conifers & deserts worldwide	
Kimmeridgian						
Oxfordian						
Dogger		Callovian				
		Bathonian				
		Bajocian				
		Aalenian				
Lias		Toarcian				
		Pliensbachian				
Sinemurian						
Hettangian						
Triassic	Tr3	Rhaetian	209 to	Dinosaurs		

			Norian	245	emerge	
			Carnian			
		Tr2	Ladinian			
			Anisian			
		Scythian	Spathian			
			Nammalian			
			Griesbachian			
Paleozoic	Permian		Zechstein	Changxingian	245 to 286	Trilobites extinct, Appalachians formed
				Longtanian		
				Capitanian		
				Wordian		
			Rotliegendes	Ufimian		
				Kingurian		
				Artinskian		
				Sakmarian		
				Asselian		
	Carboniferous	Pennsylvanian	Gzelian	Noginskian	286 to 360m	1st reptiles, 4th Ice Age
				Klazminskian		
			Kasimovian	Dorogomilovskian		
				Chamovnicheskian		
				Krevyakinskian		
			Moscovian	Myachkovskian		
				Podolskian		
				Kashirskian		
		Vereiskian				
		Bashkirian	Melekesskian			
			Cheremshanskian			
			Yeadonian			
			Marsdenian			
			Kinderscoutian			
		Mississippian	Serpukhovian	Alportian		
	Chokierian					
	Arnsbergian					
Pendleian						
Visean	Brigantian					
	Asbian					
	Holkerian					
	Arundian					
	Chadian					
Tournaisian	Ivorian					
	Hastarian					
Devonian	D1	Famennian	360 to 408m	1st amphibians		
		Frasnian				
	D2	Givetian				
		Eifelian				
	D1	Emsian				
		Prgian				
		Lochkovian				
Silurian		Pridoli	-	409 to 438m	1st land, 3rd Ice Age	
		Ludlow	Ludfordian			
			Gorstian			

		Wenlock	Gleedonian			
			Whitwellian			
			Sheinwoodian			
		Llandovery	Telychian			
			Aeronian			
			Rhuddanian			
	Ordovician	Ashgill	Hirnantian	438 to 505m	1st fish	
			Rawtheyan			
			Cautleyan			
			Pusgillian			
		Caradoc	Onnian			
			Actonian			
			Marshbrookian			
			Longvillian			
			Soudleyan			
			Harnagian			
		Dyfed	Llandeilo			Late
						Mid
						Early
		Llanvirn	Late			
			Early			
	-	Arenig	-			
	Canadian	Tremadoc	-			
	Cambrian	Merioneth	Dolgellian	505 to 570m	Worms, trilobites	
			Maentwrogian			
		St David's	Menevian			
			Solvan			
		Caerfai	Lenian			
			Atdabanian			
		Tommotian				
Sinian	Vendian	Ediacara	Poundian	570 to 2500m	Oxygen build up, 1st & 2nd Ice Ages	
			Wonokan			
	Varanger	Mortensnes				
		Smalfjord				
	Sturtian	Karatau				
Riphean		Yurmatin				
		Burzyan				
Animikean			2500 to 3800m	Single celled organisms		
Huronian						
Randian	Early Imbrian					
Swazian						
Isuan						
Hadean		Nectarian	3800 to 4600m	Earth,s origin		
		Basin Groups 1-9				
		Cryptic				