Geologic Time/Geologic Record

Relative Duration of Eons	Era	Period	Epoch	Age (Millions of Years Ago)					
Proter- ozoic		Oustance	Holocene	0.01	Historical time				
		Quaternary	Pleistocene		Ice ages; origin of genus Homo				
			Pliocene	2.6 5.3	Appearance of bipedal human ancestors				
		Neogene	Miocene		Continued radiation of mammals and angiosperms; earliest direct human ancestors				
	Cenozoic		Oligocene	23	Origins of many primate groups				
		Paleogene	Eocene	33.9	Angiosperm dominance increases; continued radiation of most present-day mammalian orders				
			Paleocene	55.8	Major radiation of mammals, birds, and pollinating insects				
		Cretaceous		65.5	Flowering plants (angiosperms) appear and diversify; many groups of organisms, including most dinosaurs, become extinct at end of period				
	Mesozoic	Jurassic		145.5	Gymnosperms continue as dominant plants; dinosaurs abundant and diverse				
		Triassic		199.6	Cone-bearing plants (gymnosperms) dominate landscape; dinosaurs evolve and radiate; origin of mammals				
		Permian		251	Radiation of reptiles; origin of most present-day groups of insects; extinction of many marine and terrestrial organisms at end of period				
Archaean		Carboniferous		299 359	Extensive forests of vascular plants form; first seed plants appear; origin of reptiles; amphibians dominant				
	Paleozoic	Devonian			Diversification of bony fishes; first tetrapods and insects appear				
		Silurian		416	Diversification of early vascular plants				
		Ordovician		444	Marine algae abundant; colonization of land by diverse fungi, plants, and animals				
		Cambrian		542	Sudden increase in diversity of many animal phyla (Cambrian explosion)				
		Ediacaran		635	Diverse algae and soft-bodied invertebrate animals appear				
				2,100 2,500	Oldest fossils of eukaryotic cells appear				
				2,700	Concentration of atmospheric oxygen begins to increase				
				3,500	Oldest fossils of cells (prokaryotes) appear				
				3,800	Oldest known rocks on Earth's surface				
			Approx	. 4,600	Origin of Earth				

TIME-ROCK UNITS OF THE GEOLOGIC COLUMN	TIME UNITS OF THE GEOLOGIC TIME SCALE (Numbers are absolute dates in millions of years before the present)						TIME RANGE OF SEVERAL GROUPS OF PLANTS AND ANIMALS				
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GENERAL PAR		Middle		1600	Precambrian	rales					
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