

# GEOLOGIC TIME IN 92 DAYS


Key

Timeline portions not listed contain no events / life forms.

Timeline Portion #	Geologic Time Period (mya=million years ago)	Representative Life Forms/Events
1	Precambrian (4600-4550 mya)	Origin of the Earth (4600 mya)
14	Precambrian (3950-3900 mya)	First proto-cells
16	Precambrian (3850-3800 mya)	First Rocks
24	Precambrian (3450-3400 mya)	Bacteria
48	Precambrian (2250-2200 mya)	Eukaryotic cells
52	Precambrian (2050-2000 mya)	Atmospheric oxygen reaches critical levels
80	Precambrian (650-600 mya)	Algae and soft bodied animals, soft-bodied bilateral animals
82	Precambrian/Cambrian (550-500 mya)	Animals with shells and external skeletons
83	Cambrian/Ordovician (500-450 mya)	Plants on land (reproduce by spores), arthropods, first fishes
84	Ordovician/Silurian/Devonian (450-400 mya)	Vascular plants, insects
85	Devonian/ Carboniferous (400-350 mya)	Bony fishes, amphibians
86	Carboniferous (350-300 mya)	Forests of seed ferns, reptiles, amphibians
87	Carboniferous/Permian/Triassic (300-250 mya)	More reptiles, present-day insects, first dinosaurs, amphibians dominate Mass extinction - 95% of species wiped out, conifers
88	Triassic (250-200 mya)	Dinosaurs dominate, early mammals

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89	Triassic/Jurassic (200-150 mya)	Dinosaurs, mammals, birds, gymnosperm plants
90	Jurassic/Cretaceous (150-100 mya)	Dinosaurs, mammals, flowering plants, hardwood trees
91	Cretaceous/ Paleogene (100-50 mya)	Cretaceous: Flowering plants, hardwood trees, mass extinction of dinosaurs Paleogene: First primates, whales and dolphins return to sea
92	Paleogene/Neogene/Quaternary (50 mya - present)	Paleogene: First apes Neogene: Common ancestor to apes and humans, hominids, mammals Quaternary: See Quaternary Expansion
	Quaternary Expansion	(In order of appearance in record): Homo erectus becomes dominant hominid, hominids begin systematic use of fire, Neanderthals, Homo sapiens, etching and cave paintings, Great Ice Age begins and ends-lasting 73,000 years, domestication of animals and crop plants, first cities, advances in transportation, medicine and technology

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