Types of Fossil Types

Trace Fossil	Molds and casts	Replacement	Petrified	Amber	Original Material
Any indirect material thats left by an organism	An impression in rock, may be filled with sediment	Original Material is replaced with crystal	Empty pore spaces are filled with crystal	The whole organism is preserved in tree sap	Mummification or freezing preserves the material

The Geologic Time Scale

Era	Mya	Major Events - Environment	Major Events - Living Things
Precambrian	4600	Earth Forms	Oldest fossils of Prokaryotes
			Oldest fossils of Eukaryotes
			Multicellular organisms appear
			Invertebrates and algae diversify
			Soft bodied orgnisms appeared
Paleozoic	488.3	Swampy forests dominate the land	Cambrian Explosion
		Mass extinction ended the era	All body plans arise
			Vertebrates and plants appear
			Land plants and insects appear
			Sharks and bony fish appear
			Insects scatter
			Amphibians appear
			Ferns and evergreens make up forests

Era	Mya	Major Events - Environment	Major Events - Living Things
			Reptiles Scatter
Mesozoic	199.6	Meteorite strike	First mammals appear
			Dinosaurs appear
			Gymnosperms are dominant
			Forests are lush
			Dinosaurs scatter
			First birds appear
			Dinosaur population peeks
			Flowering plants appear
Cenzoic	55.8	Climate is tropical	Mammals, birds, and insects scatter
		Climate is mild	Most mammal orders exist
		Climate is cooler	Flowering plants scattered
		Ice ages occur	Monkeys appear
			Apes appear
			Flowering plants are dominant
			Hominins appear
			Modern Humans appear
			Humans form civilizations