

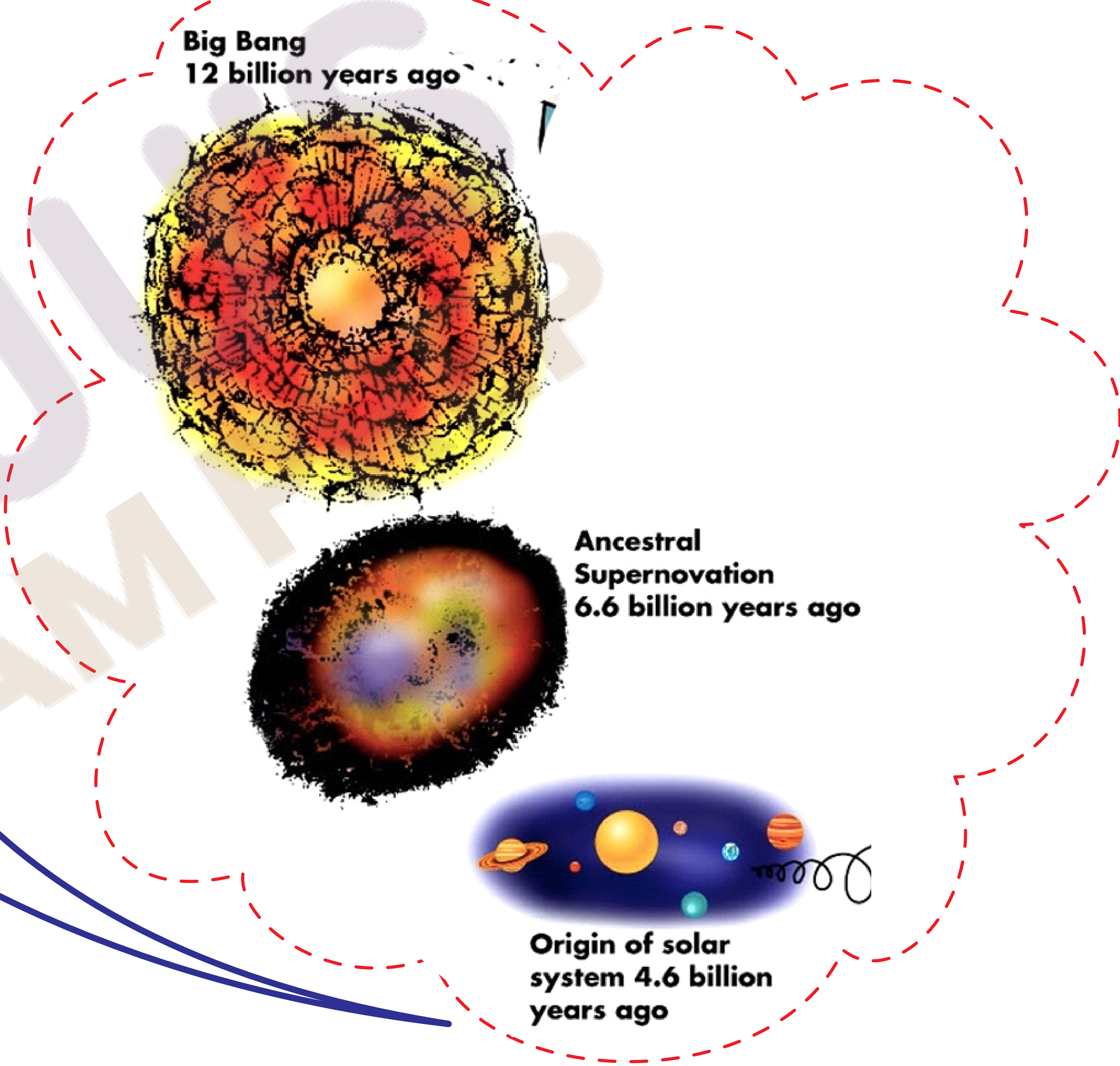
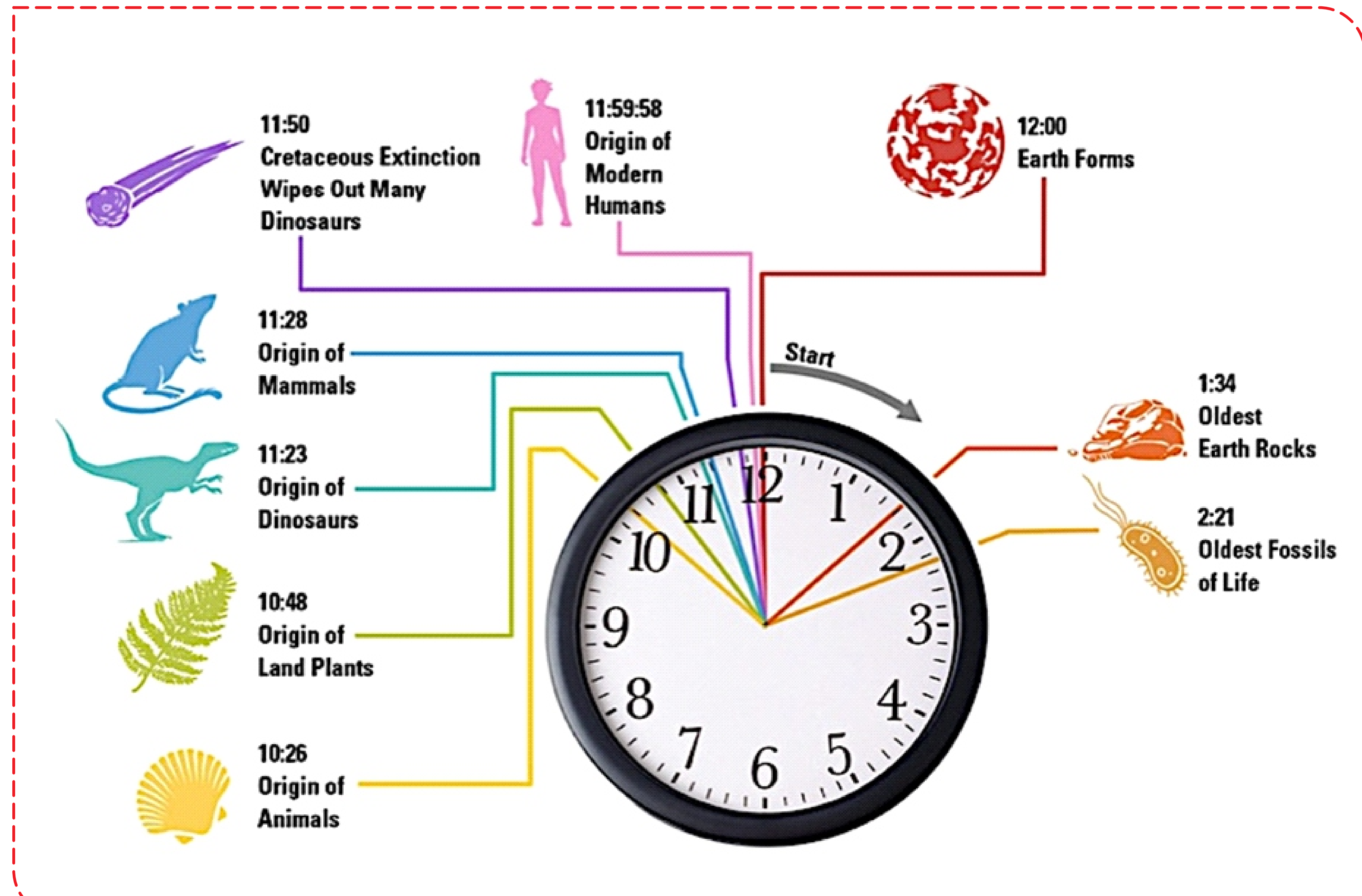
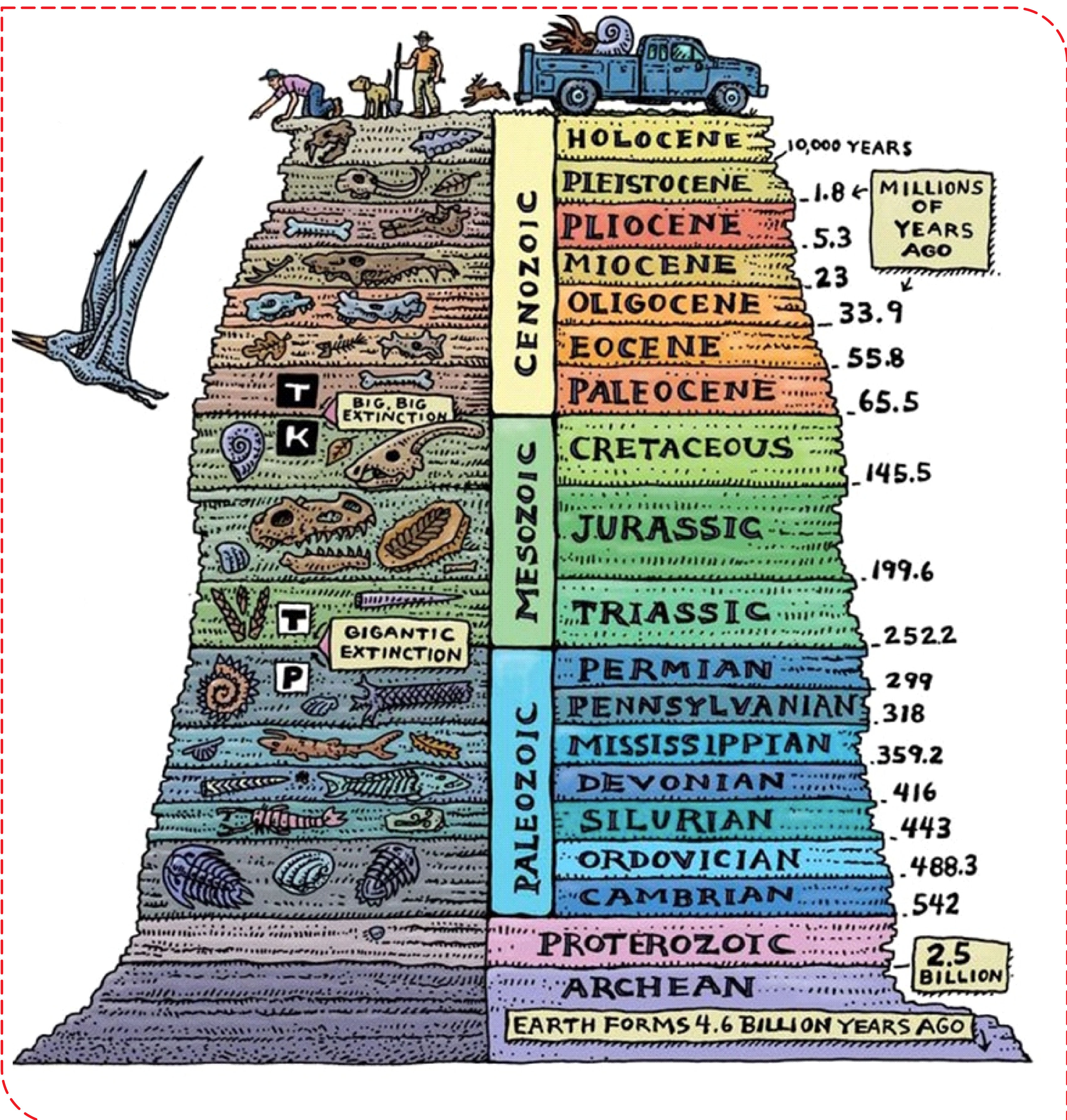
# MIND MAP

# EVOLUTIONARY TIME SCALE





# THE EVOLUTIONARY TIME SCALE



## MAJOR EVENTS IN THE EVOLUTIONARY TIME SCALE

EON	ERA	PERIOD	EPOCH	MYA	MAJOR BIOLOGICAL EVENTS	
PHANEROZOIC	CENOZOIC	QUATERNARY	HOLOCENE	0.01	Civilization and agriculture flourished. Large mammals have become extinct in the northern hemisphere.	
			PLEISTOCENE	1.8	The first modern humans appear. Rapid changes in biological communities are caused by four main glaciations.	
		TERTIARY	NEOGENE	PLIOCENE	5	Extensive flowering plant and mammalian radiation. Hominids make their first appearance.
				MIOCENE	23	Insects and floral plants have coevolved. Dogs and bears make an appearance.
		PALEOGENE	OLIGOCENE	38	Tropical rainforests can be found all over the world. Pigs, cats, and rhinos all make an appearance. Snails and bivalves dominate the waters.	
			EOCENE	54	There were a lot of early mammals. Rodents, primitive whales, and grasses are among the creatures that appear.	
	PALEOCENE		65	Early placental mammals appear; first primates; modern birds.		
	MESOZOIC	CRETACEOUS		146	There are marsupials, ants, bees, butterflies, and flowering plants. Most huge animals and numerous plants have gone extinct in large numbers.	
		JURASSIC		208	The land is dominated by dinosaurs and gymnosperms, with the appearance of feathered dinosaurs and birds. Marine reptiles are exposed to radiation.	
		TRIASSIC		245	Origin of mammals, dinosaurs and true flies. Less diverse marine fauna.	
	PALEOZOIC	PERMIAN		286	Amphibians and gymnosperms are the most common. Stoneflies and beetles appear. 95 percent of marine species and half of all animal families have gone extinct.	
		CARBONIFEROUS	PENNSYLVANIAN	325	Reptiles, cockroaches, and mayflies are the first to appear. Coal swamp forests abound. Sponge reefs are a type of sponge reef.	
			MISSISSIPPIAN	360	Oceans are dominated by echinoderms and bryozoans. Insects with early wings. Then there were the coal swamp forests.	
		DEVONIAN		410	Then there were the amphibians. Fish and land plants have been exposed to a lot of radiation. Many corals, brachiopods, and echinoderms can be found here.	
		SILURIAN		440	First spiders, scorpions, centipedes, early insects, vascular plants, jawed fish and large reefs appear.	
ORDOVICIAN			505	Land plants, primitive fungus, and sea weed are the first to appear. Corals, mollusks, bivalves, echinoderms, and other marine creatures.		
CAMBRIAN		543	All major animal groups are on the rise. There is a lot of metazoan life, and trilobites are the most common. The very first fish. There is no evidence of life on Earth.			
PROTEROZOIC EON				570	Multicelled organisms arose from a single cell. Sponge, colonial algae, and soft-bodied invertebrates were the first to appear.	
ARCHEAN EON				2500	Photosynthetic organisms cause oxygen levels to rise. 1.4 billion years ago, the first eukaryotes (single-celled algae) appeared. Anaerobic prokaryotes (bacteria, archaeans) are the oldest forms of life, dating back 3.5 billion years.	
HADEAN EON				2800-4600	There is no evidence of a life. The Earth's crust is cooling and solidifying.	



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