Geologic Timeline Assignment

You will make a geologic timeline showing when the eras and periods occurred. You will start with the formation of the Earth 4.5 billion years ago. Each period needs to have at least one drawing or picture to illustrate an event that occurred during that period. All mass extinctions should also be included. You can choose any five additional events to place on the timeline (be sure to illustrate it with a drawing or picture). You will choose your own scale; make sure you write it on the timeline so I know what you chose. Obviously, the timeline will probably take up several sheets of paper.

List of **periods/eras** for timeline from oldest to most recent:

- Precambrian time
- Cambrian Period (543-510 million years ago)
- Ordovician Period (510-438 mya)
- Mass Extinction
- Silurian Period (438-408 mya)
- Devonian Period (408-360 mya)
- Mass Extinction
- Carboniferous Period (360-286 mya)
- Permian Period (286-245 mya)
- Mass Extinction
- Triassic Period (245-208 mya)
- Mass Extinction
- Jurassic Period (208-144 mya)
- Cretaceous Period (144-66 mya)
- Mass Extinction
- Paleogene Period (66-34 mya)
- Neogene Period (24-0 mya)
- Significant Mammalian Extinction

Rubric for Grading

Total points - 60 points

- 6 mass extinctions = 6 points
- 11 periods + Precambrian time + illustrations for each = 3 pts each = 36 points
- 5 selected events + illustrations = 5 points
- Scale and key = 8 points
- Creative, artistic, easy to follow, colored = 5 points

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Due				



Era	Period	Epoch	Million Years Ago (MrA)	Plant Life	Animal Life			
		Holocene	(0.01-0)	Human influence on plant life	Age of Homo sapiens			
		Significant Mammalian Extinction						
	Quaternary	Pleistocene	(1.80-0.01)	Herbaceous plants spread and diversify.	Presence of Ice Age mammals. Modern humans appear.			
		Pliocene	(5.33–1.80)	Herbaceous angiosperms flourish.	First hominids appear.			
		Miocene	(23.03-5.33)	Grasslands spread as forests contract.	Apelike mammals and grazing mammals flourish; insects flourish.			
Cenozoic	Tertiary	Oligocene	(33.9-23.03)	Many modern families of flowering plants evolve.	Browsing mammals and monkeylike primates appear.			
		Eocene	(55.8-33.9)	Subtropical forests with heavy rainfall thrive.	All modern orders of mammals are represented.			
		Paleocene	(65.5–55.8)	Flowering plants continue to diversify.	Primitive primates, herbivores, carnivores, and insectivores appea			
		Mass Extino	tion: 50% of all 5	Species, Dinosaurs and Most Reptiles				
	Cretaceous		(145.5-65.5)	Flowering plants spread; conifers persist.	Placental mammals appear; moder insect groups appear.			
Mesozoic	Jurassic		(199.6-145.5)	Flowering plants appear.	Dinosaurs flourish; birds appear.			
		Mass Extinction: 48% of All Species, Including Corals and Ferns						
	Triassic		(251–199.6)	Forests of conifers and cycads dominate.	First mammals appear; first dinosa appear; corals and molluscs dominate seas.			
		Mass Extinction ("The Great Dying"): 83% of All Species on Land and Sea						
	Permian		(299–251)	Gymnosperms diversify.	Reptiles diversify; amphibians decline.			
	Carboniferous		(359.2-299)	Age of great coal-forming forests; fems, club mosses, and horsetails flourish.	Amphibians diversify, first reptiles appear; first great radiation of insects.			
		Mass Extino	tion: Over 50% o	of Coastal Marine Species, Corals 77	-1			
Paleozoic	Devonian		(416-359.2)	First seed plants appear. Seedless vascular plants diversify.	First insects and first amphibia appear on land.			
	Silurian		(443.7–416)	Seedless vascular plants appear.	Jawed fishes diversify and domination the seas.			
		Mass Extino	tion: Over 57% o	-				
	Ordovician		(488.3-443.7)	Nonvascular land plants appear on land.	First jawless and then jawed fishes appear.			
	Cambrian		(542-488.3)	Marine algae flourish.	All invertebrate phyla present; first chordates appear.			
			630	Soft-bodied invertebrates				
			1,000	Protists diversify.				
recambrian 1	Time		2,100	First eukaryotic cells	/VIDENTIAL VI			
			2,700	O ₂ accumulates in atmosphere.	1/1////			
			3,500	First prokaryotic cells	1			
			4,570	Earth forms.				