

OLLI Age of Reptiles

Fall 2022 with Nicole Myers

Week 4

Digital presentations associated with the course & handouts will be available at:

<https://www.appreciatingearth.com/olli>

Geologic Time Scale						
EON ERA	PERIOD	EPOCH				
Phanerozoic	Cenozoic	Quaternary	Holocene	Present		
			Pleistocene	0.01		
		Tertiary	Neogene	Pliocene	2.6	
				Miocene	5.3	
				23.0		
				Oligocene	33.9	
			Paleogene	Eocene	55.8	
				Paleocene	65.5	
				Mesozoic	Cretaceous	145.5
					Jurassic	199.6
	Triassic	251				
	Paleozoic	Carboniferous	Permian	299		
			Pennsylvanian	318		
		Mississippian	359.2			
		Devonian	416			
		Silurian	443.7			
		Ordovician	488.3			
		Cambrian	542			
	Precambrian	Proterozoic		2500		
		Archean		4000		
Hadean						

Simplified Geologic Time Scale, this week we will focus on the diversification of dinosaur during the Late Jurassic Period and into the Early Cretaceous Period of the Mesozoic Era, the Age of Reptiles.

Simplified Geologic Time Scale from: Spooner, Alecia M. "The Geologic Timescale." *Dummies*. A Wiley Brand. <https://www.dummies.com/education/science/the-geologic-timescale/>

Dinosaur Cladograms: We focus on the dinosaur survivors of the Triassic and early Jurassic climate swings that diversified as Pangaea broke apart. The week 3 handout has a great dinosaur cladogram I also recommend you refer to, and the source of the cladogram below (Open Geology) is a great way to delve deeper into the 2 Dinosaur Orders (Ornithischians & Saurischians), which are divided into 5 Suborders (Theropoda, Sauropoda, Ornithopoda, Marginocephalia, Thyreophora)

Historical Geology: A free online textbook for Historical Geology. Open Geology. <https://opengeology.org/historicalgeology/case-studies/dinosaur-classification/>

