

# Science Olympiad Geologic Time Scale 2024



CENOZOIC		
Period	Epoch	Numeric Age (Ma)
QUATERNARY	Holocene	0.012
	Pleistocene	
TERTIARY	Neogene	Pliocene
		Miocene
	Paleogene	Oligocene
		Eocene
		Paleocene

MESOZOIC		
Period	Epoch	Numeric Age (Ma)
CRETACEOUS	Upper	100.5
	Lower	
JURASSIC	Upper	145.0
	Middle	
	Lower	
TRIASSIC	Upper	201.3
	Middle	
	Lower	

PALEOZOIC		
Period	Epoch	Numeric Age (Ma)
PERMIAN	Upper	259.1
	Middle	
	Lower	
CARBONIFEROUS	Pennsylvanian	Upper
		Middle
		Lower
	Mississippian	Upper
		Middle
		Lower
DEVONIAN	Upper	382.7
	Middle	
	Lower	
SILURIAN	Pridoli	419.2
	Ludlow	
	Wenlock	
	Llandovery	
ORDOVICIAN	Upper	458.4
	Middle	
	Lower	
CAMBRIAN	Furongian	485.4
	Epoch 3	
	Epoch 2	
	Terreneuvian	

PRECAMBRIAN	
Eon	Numeric Age (Ma)
PROTEROZOIC	2500
ARCHEAN	
HADEAN	4600

Modified from the following: **GSA Geologic Time Scale v. 5.0** and **International Chronostratigraphic Chart v. 2018/08**

**References:**

Cohen, K.M., Harper, D.A.T., Gibbard, P.L. 2018. *ICS International Chronostratigraphic Chart 2018/08*. International Commission on Stratigraphy, IUGS. [www.stratigraphy.org/index.php/ics-chart-timescale](http://www.stratigraphy.org/index.php/ics-chart-timescale) (visited: 2018/08/15)

Walker, J.D., Geissman, J.W., Bowring, S.A., and Babcock, L.E., compilers. 2018. *Geologic Time Scale v. 5.0*: Geological Society of America. [https://www.geosociety.org/GSA/Education\\_Careers/Geologic\\_Time\\_Scale/GSA/timescale/home.aspx](https://www.geosociety.org/GSA/Education_Careers/Geologic_Time_Scale/GSA/timescale/home.aspx) (visited: 2018/08/15)

**\*\*Explanation:**

Divisions of geologic time are not to scale.

Ma – Millions of years ago

The Cenozoic, Mesozoic, and Paleozoic are the Eras of the Phanerozoic.