

NAME: Kyle

HOUR: _____ DATE: _____

GEOLOGIC TIME SCALE

Using the Geologic Time Scale handouts provided, complete the chart below on the different periods. Be sure to fill the chart out as completely as possible! You can never have enough information!

Period	Life Forms	Geologic Events	Climate	Extinctions	New Species	Millions of Years Ago MYA
Quaternary	Mammals Humans Plants (5 Kingdoms)	- volcanoes - PT - No major changes	- Ice age - Seasonal variation	mammals + birds large	always new species being found.	Present to 1.6 m 1.6 m ago
Tertiary	- Rats, mice, squirrels - monkeys evolve - chimps evolve - Modern Plants	- Cascade mountains began forming - Glaciation (start)	- Cooling climate	No major extinctions		1.6 - 65 million Y.A.
Cretaceous		Andes mountain Africa + South Africa began to separate.	- climate cooling b/c of mountain building. - shallow seas have extensive distribution		First flowering plants.	65 - 100 MYA
Jurassic		large land masses covered by shallow seas.	- climate generally warm. little seasonal variation		First birds + mammals appear	100 - 200 MYA
Triassic		Extensive deserts exist in interior.	climate warm		First dinosaurs.	200 - 250 MYA

Cenozoic

Mesozoic

	LIFE FORMS	GEOLOGICAL	CLIMATE	EXTINCTIONS	NEW SPECIES	MYA
Permian		average landmasses with highest elevations.	Climate cold at beginning then warms.	Mass extinction		252 254 MYA
Penn- sylvanian	insects evolve		- Occasional glaciation in Southern Hemisphere.		First reptiles	260 300 MYA
Mississ- ippian	Plants & insects evolve	Mountain building increases	- Climate Arid (Hot) From mountain building (interior continent)			320 360 MYA
Devonian		landmass increases in altitude	land masses generally incl. in altitude. climate cooling		First amphibians & trees appear	360 400 MYA
Silurian		- tectonic uplift begins		Major extinction event occurs.	Major extinction event	400 430 MYA
Ordovician		- greatest extent of shallow seas.	climate becoming warmer.		First fish & Fungi (mushrooms)	450 480 MYA
Cambrian	Invertebrates become common.		Warm climate		Inverte	500 550 MYA

Paleozoic

	LIFE FORMS	GEOLOGIC EVENTS	CLIMATE	EXTINCTIONS	NEW SPECIES	MYA
Proterozoic		Δ in lith make major changes in land masses	-Variable. Hot - Different atmosphere		Eukaryotic cell develop First multicelled organism	551 - 2500
Archean		slow develop of Lithosphere	-Variable - Hot - Different atmosphere		Single cell prokaryotic organisms	3600 - 4600

Precambrian

