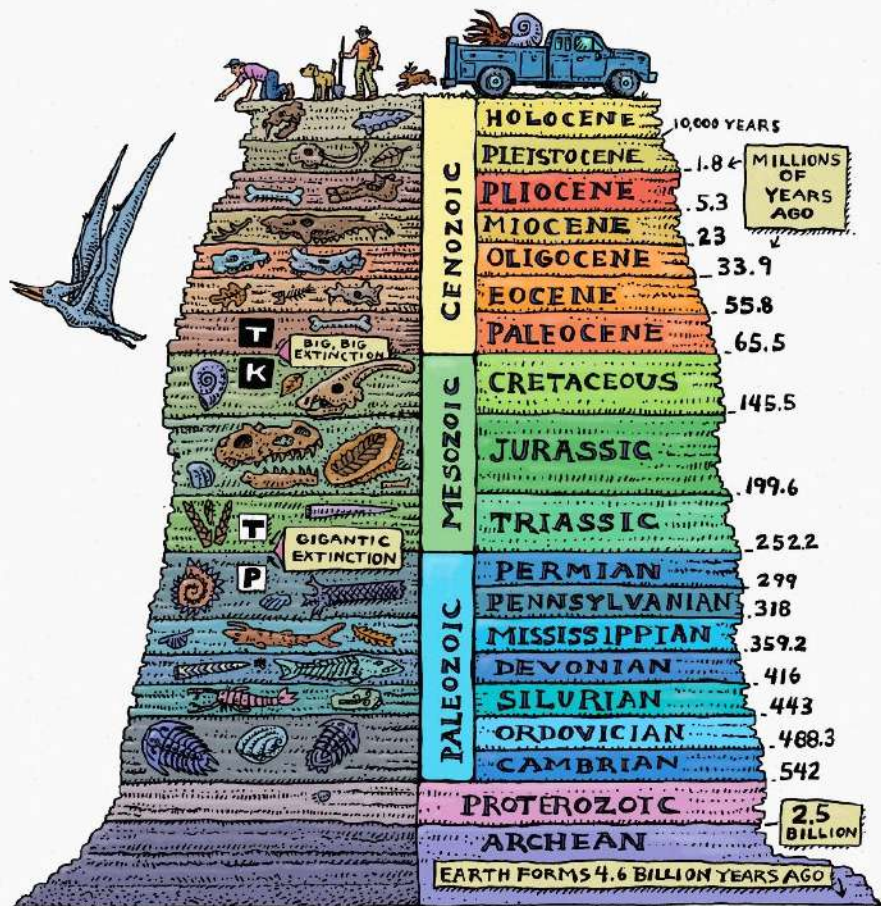


Law of Superposition

	Eon	Era	Period	Epoch	
<div> <div>Younger</div> <div>↑</div> <div>↓</div> <div>Older</div> </div>	Phanerozoic	Cenozoic	Quaternary	Holocene	← Today
				Pleistocene	← 11.8 Ka
			Neogene	Pliocene	
				Miocene	
			Paleogene	Oligocene	
				Eocene	
				Paleocene	← 66 Ma
		Mesozoic	Cretaceous		~
			Jurassic		~
			Triassic		~
		Paleozoic	Permian		~
			Carboniferous	Pennsylvanian	~
				Mississippian	~
			Devonian		~
			Silurian		~
			Ordovician		~
			Cambrian		~
	Proterozoic	~	~		← 541 Ma
	Archean	~	~		← 2.5 Ga
	Hadean	~	~		← 4.0 Ga
					← 4.54 Ga







Complete the following vocabulary definitions:

Fossil

- The trace or remains of an organism that lived long ago, most commonly preserved in sedimentary rock

Law of Superposition

- Younger rocks lie above older rocks if the layers have not been disturbed

Relative dating

- Any method of determining whether an event or object is older or younger than other events or objects

Index fossil

- A fossil that is found in the rock layers of only one geologic age and is used to establish the age of the rock layers. Is found in rock layers around the world, ex Trilobites

TC

CGA

AU

UBN

BN

NO

OXD

DM

Activity #1:

In the boxes to the left, write the letters in order with the youngest at the top to the oldest at the bottom.

Oldest letter(s)?

DM

Youngest letter(s):

TC

What letter(s) showed up the most?

N

Which letter(s) only showed up once?

M, T, X, G

Were there any index fossils? Explain.

DM

How did you know which was older: "M" or "X"?

Closer to core is older - farthest is youngest



Activity # 2:

In the boxes to the left, write the letter of each fossil card in order with the youngest at the top and the oldest at the bottom.

Oldest organism(s)?

Youngest organism(s)?

What problems did you run into when trying to arrange the fossils into the correct sequence?

Would this have been more difficult if you did not know which layer was the oldest to start the activity? Explain.

Which organism is the most complex of all the fossils and why?



Uncover me at the end to check your work!