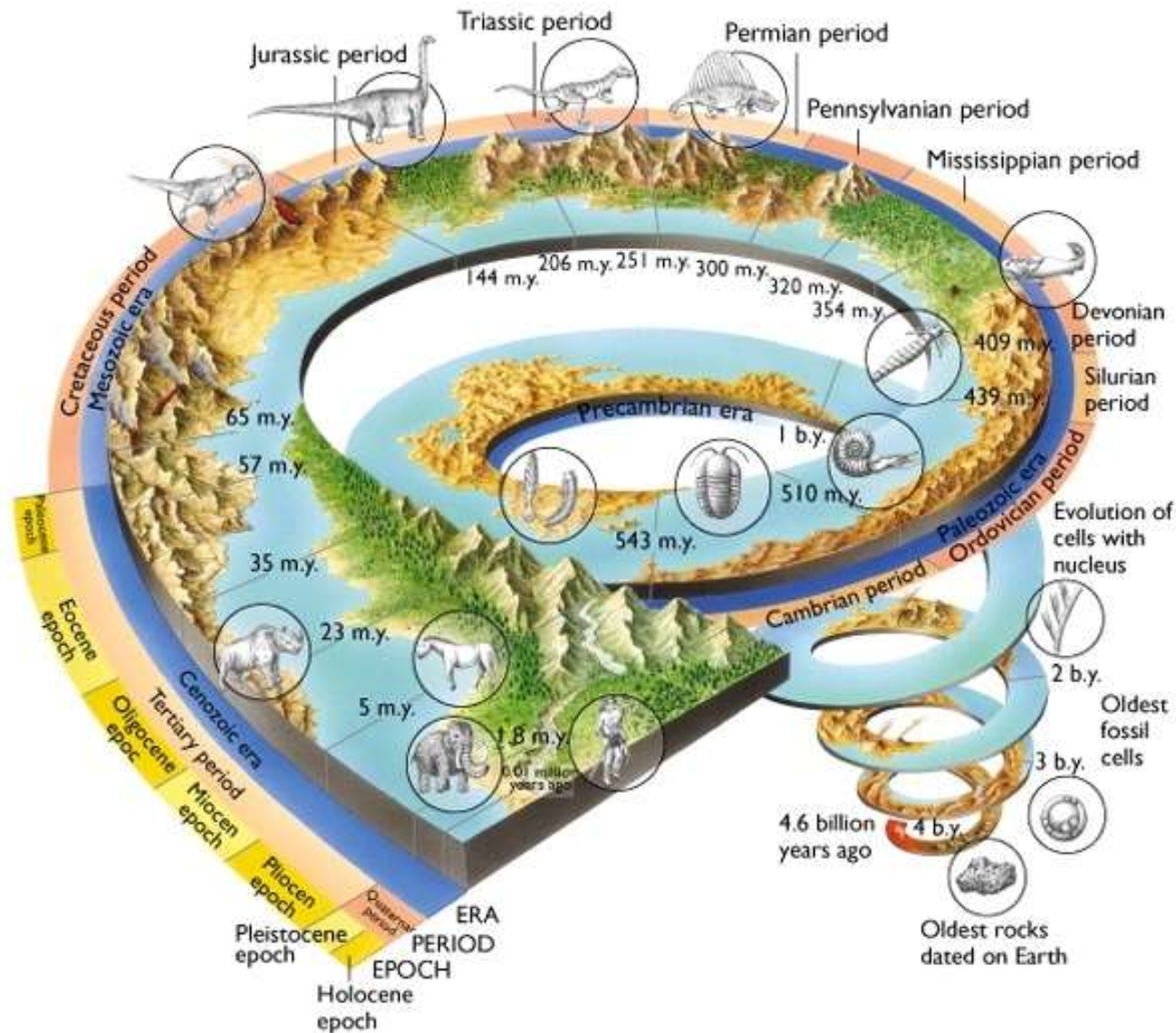


Geologic Time

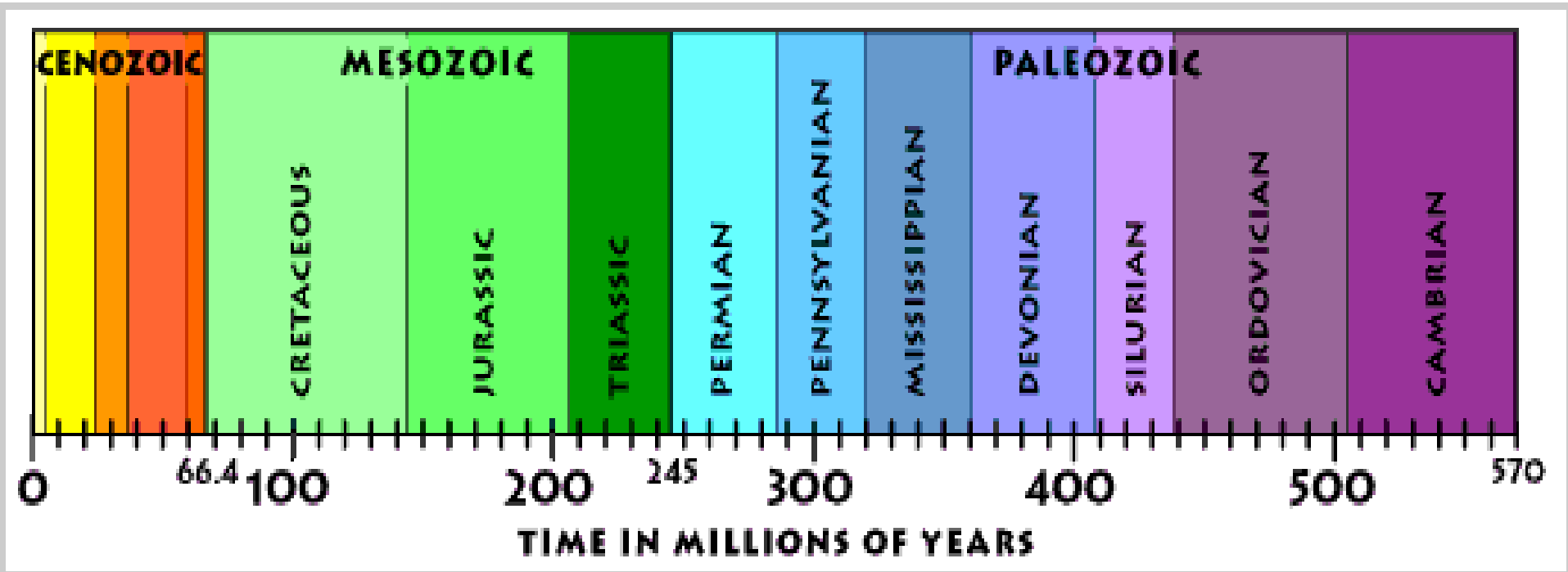
Mr. Skirbst

Geologic Time



Geologic Time Scale

Describing and dividing major events of Earth's history

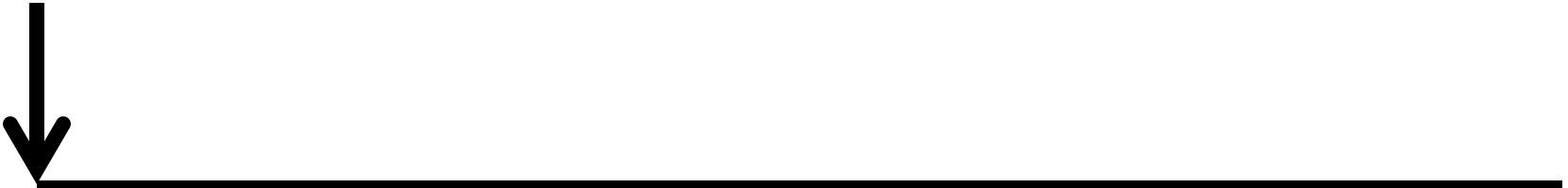


Like a timeline of your life!



Like a timeline of your life!

Birth



Like a timeline of your life!

Birth



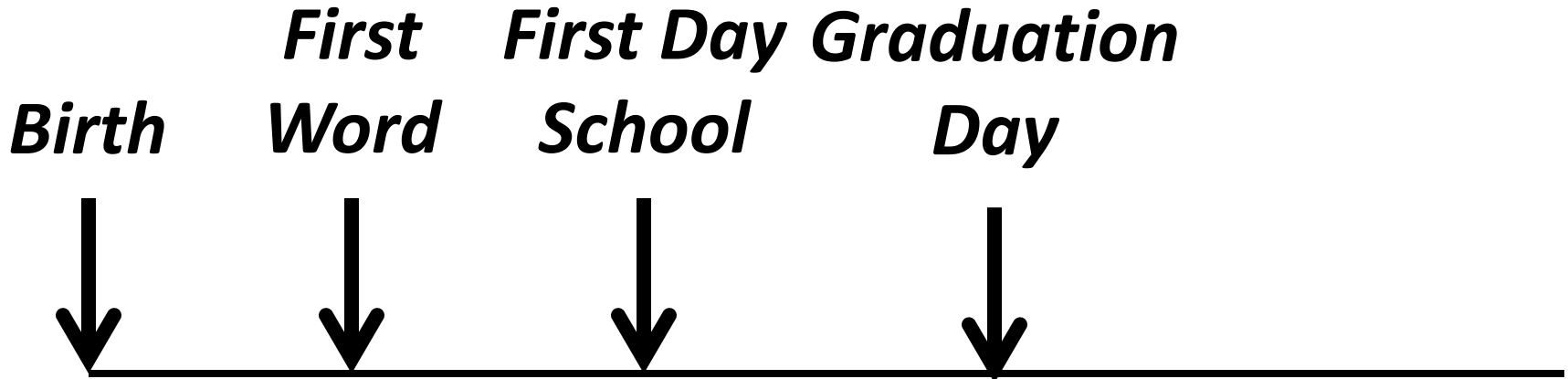
***First
Word***



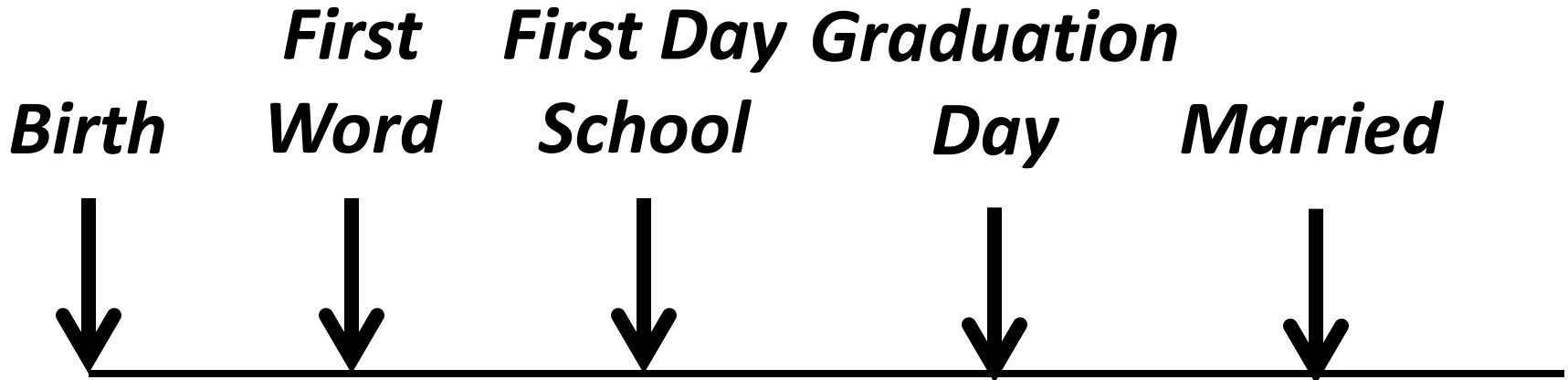
Like a timeline of your life!



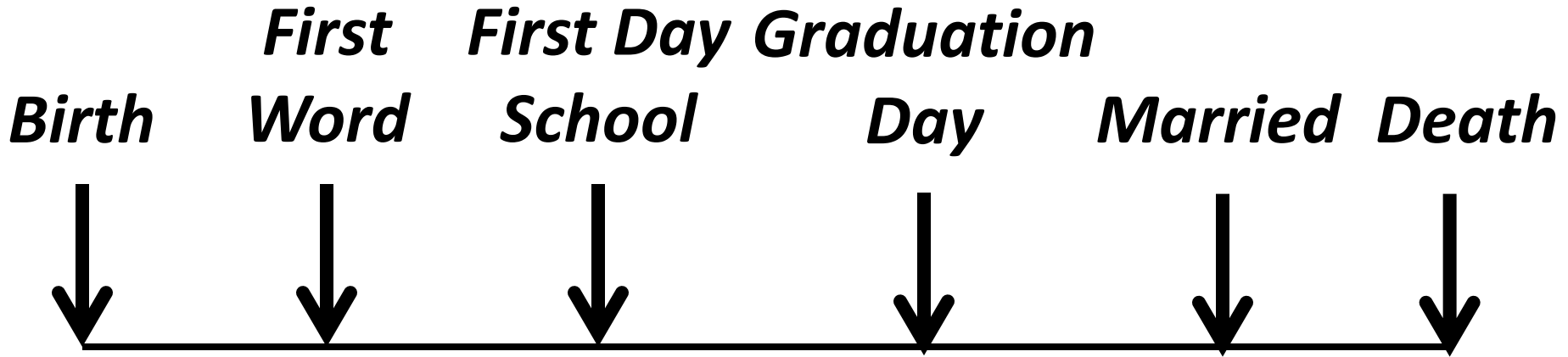
Like a timeline of your life!



Like a timeline of your life!



Like a timeline of your life!



Geologic Time Scale

Geologic Time Scale

*Era - longest division
of geologic time*

Geologic Time Scale

Era - longest division
of geologic time

4 Major Eras

Geologic Time Scale

Era - longest division
of geologic time

4 Major Eras

*Period – sub-divisions
of eras*

Geologic Eras

Geologic Eras

1. Precambrian - early Earth

Geologic Eras

1. Precambrian
2. *Paleozoic “old life”*

Geologic Eras

1. Precambrian
2. Paleozoic
3. ***Mesozoic “middle life”***

Geologic Eras

1. Precambrian
2. Paleozoic
3. Mesozoic
4. Cenozoic *“current life”*

Precambrian Era

~ 4.6 bya – 570 mya

Precambrian Era

~ 4.6 bya – 570 mya

*(bya= billion years ago
mya = million years ago)*

Precambrian Era

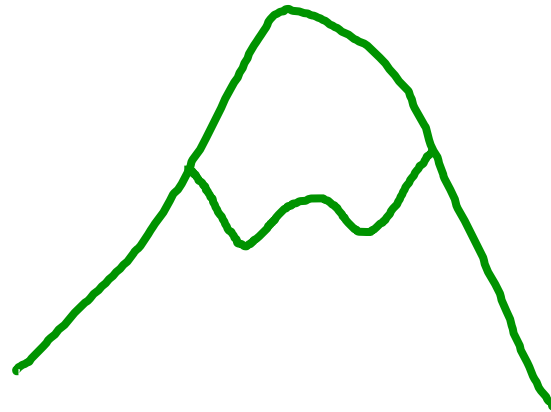
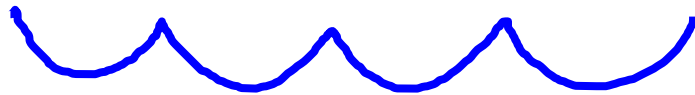
** Earth formed*



Precambrian Era

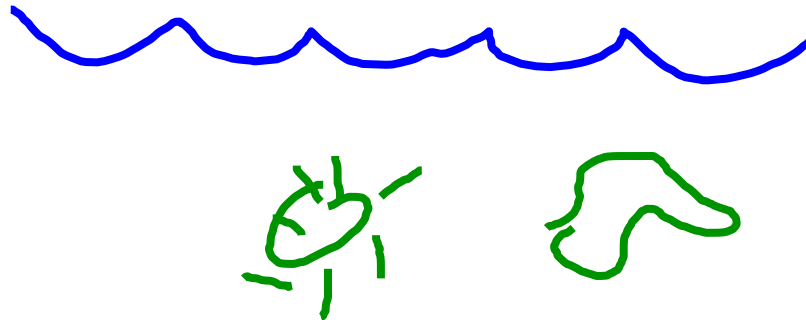
- * Earth formed

- * *Seas and mountains formed*



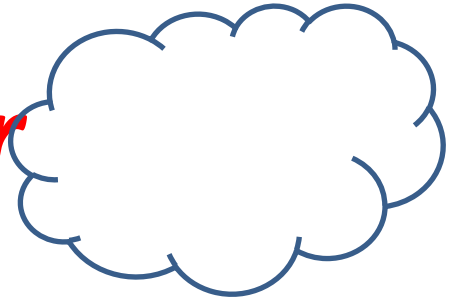
Precambrian Era

- * Earth formed
- * Seas and mountains formed
- * *Simple life-forms in sea*



Precambrian Era

- * Earth formed
- * Seas and mountains formed
- * Simple life-forms in sea
- * *Oxygen builds up in air*



Paleozoic Era

570 mya – 225 mya

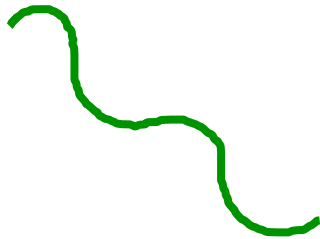
Paleozoic Era

570 mya – 225 mya

*Divided into 6 periods
based on major events*

Periods of Paleozoic Era

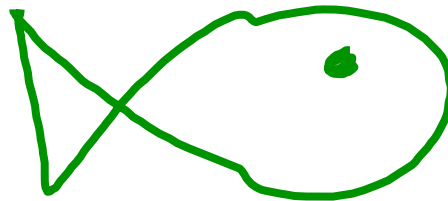
Cambrian – sea-dwelling inverts.



Periods of Paleozoic Era

Cambrian – sea-dwelling inverts.

Ordovician – first fish appear

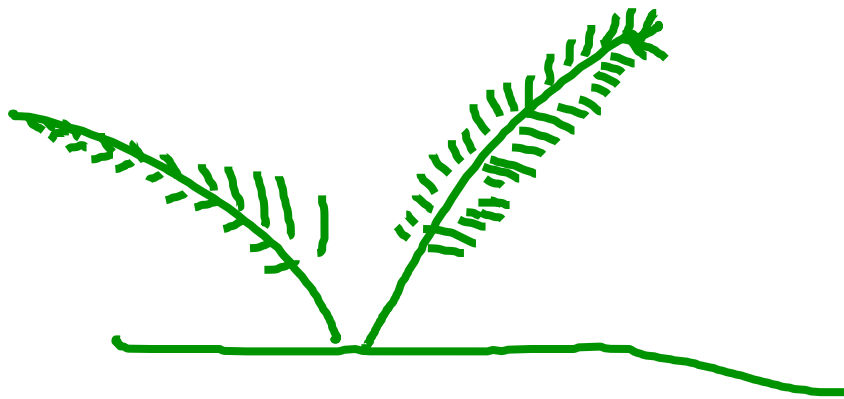


Periods of Paleozoic Era

Cambrian – sea-dwelling inverts.

Ordovician – first fish appear

Silurian – first land plants



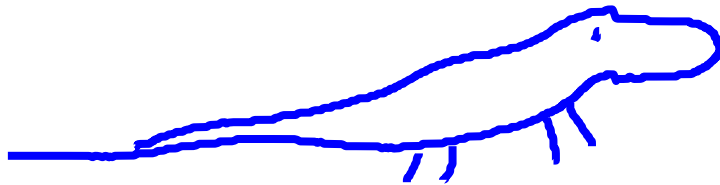
Periods of Paleozoic Era

Cambrian – sea-dwelling inverts.

Ordovician – first fish appear

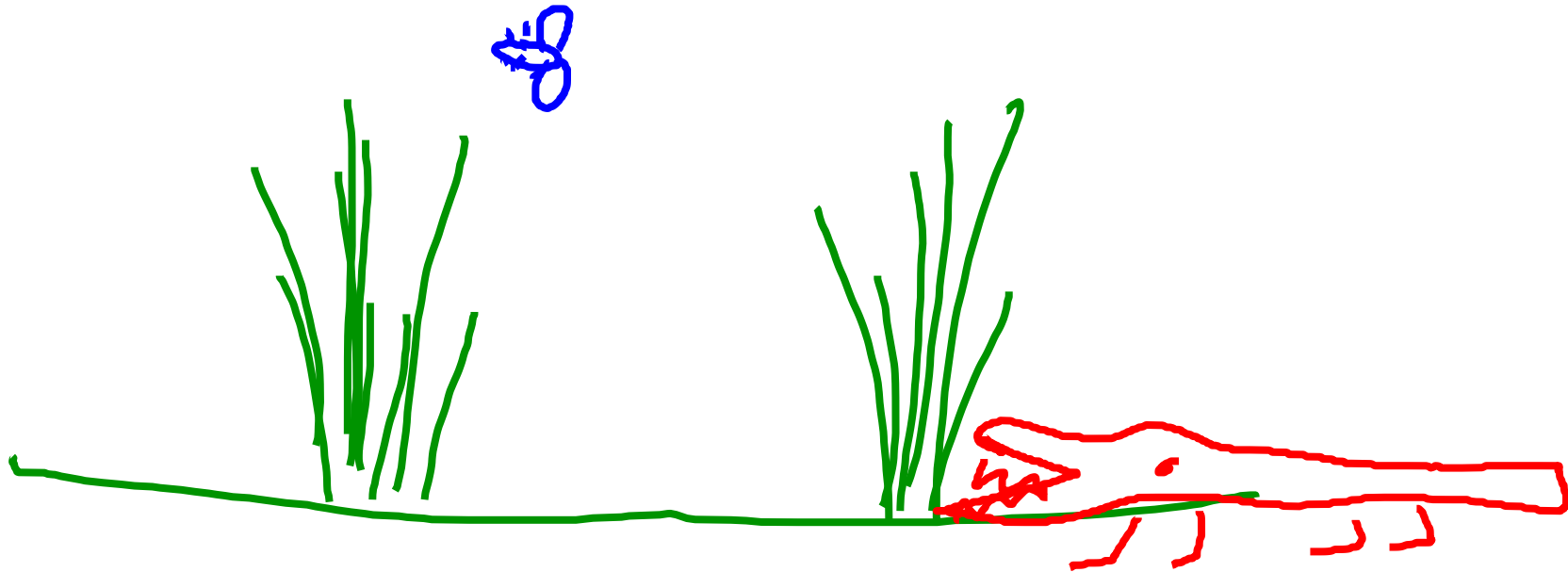
Silurian – first land plants

Devonian – first amphib. + forests



Periods of Paleozoic Era

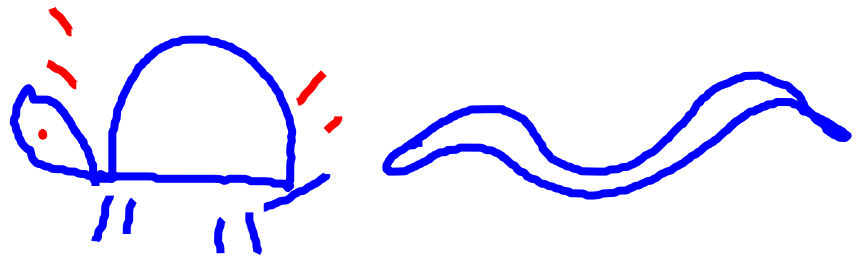
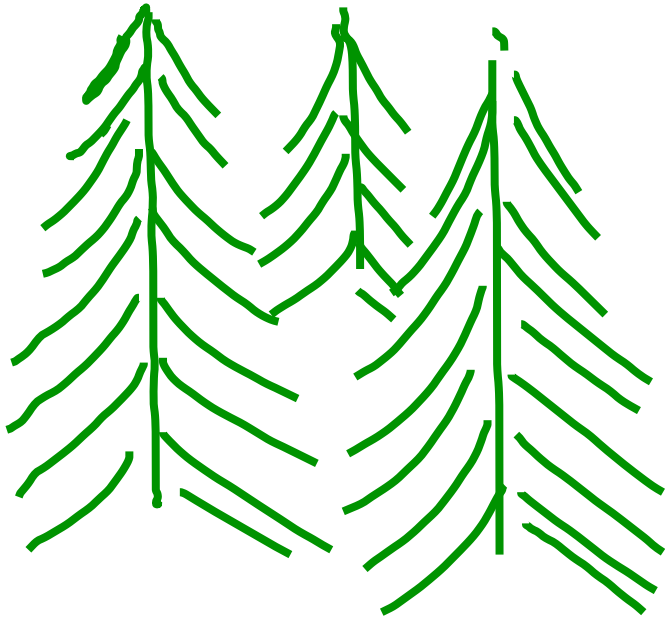
*Carboniferous – swamps, ferns,
insects, reptiles*



Periods of Paleozoic Era

Carboniferous – swamps, ferns etc

Permian – conifers, lots of reptiles



Periods of Paleozoic Era

Cambrian – sea-dwelling inverts.

Ordovician – first fish appear

Silurian – first land plants

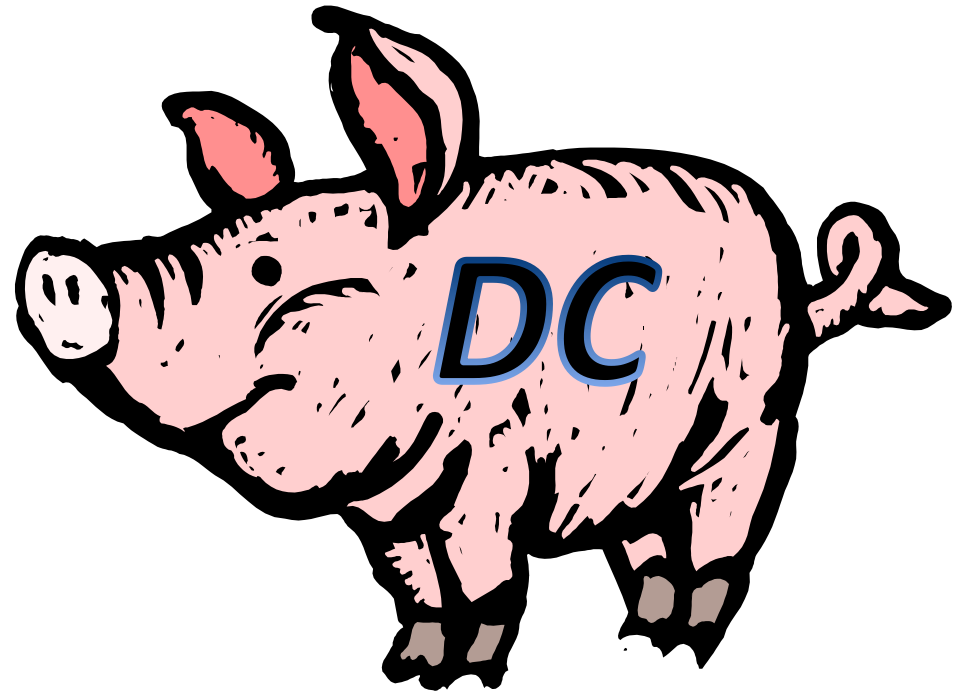
Devonian – first amphib. + forests

Carboniferous – swamps, ferns etc

Permian – conifers, lots of reptiles

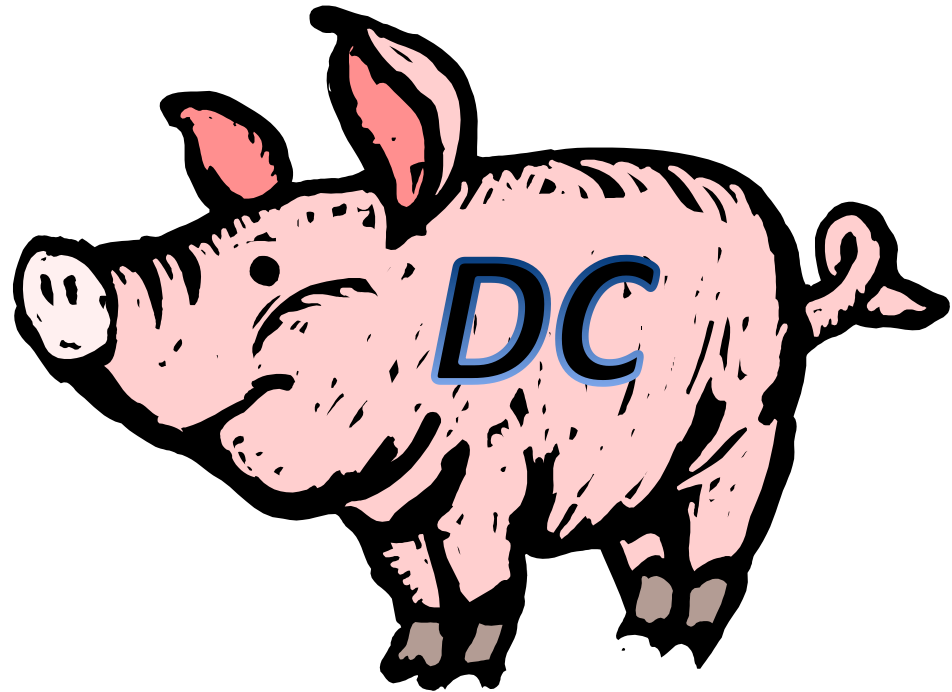
Periods of Paleozoic Era

Memory aid: "COSDCP"



Periods of Paleozoic Era

Memory aid: “COSDCP”



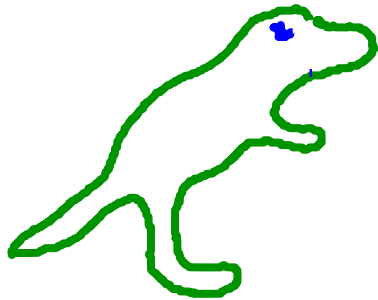
“Come Over,” Said DC Pig

Mesozoic Era

225 mya – 65 mya

Periods of Mesozoic Era

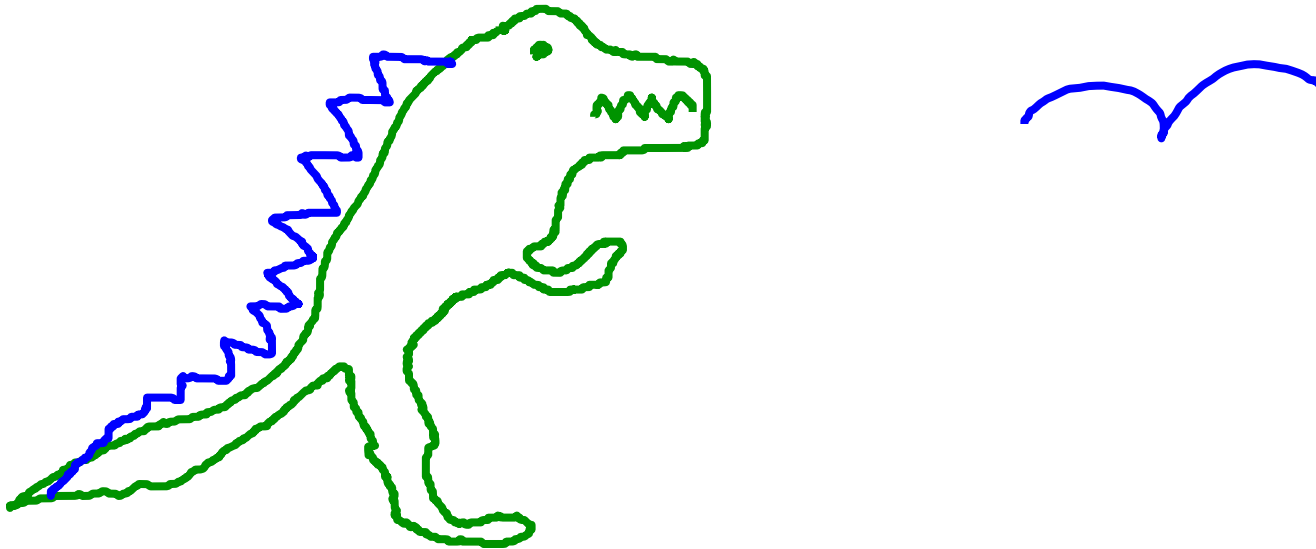
Triassic – 1st dinosaurs + mammals



Periods of Mesozoic Era

Triassic – 1st dinosaurs + mammals

Jurassic – 1st birds + big dinos



Periods of Mesozoic Era

Triassic – 1st dinosaurs + mammals

Jurassic – 1st birds + big dinos

*Cretaceous – 1st flowers + dinos
die out*



Periods of Mesozoic Era

Triassic

Jurassic

Cretaceous

Periods of Mesozoic Era

Tiger Juggling Chainsaws

*T*riassic

*J*urassic

*C*retaceous



Extinction Theory

- *Explains the mass extinction*

C-T Boundary

**Proposed by Walter & Luis Alvarez*



C-T Boundary

*Proposed by Walter & Luis Alvarez

**Radioactive sediment found
between Cretaceous & Tertiary
Periods.*



C-T Boundary

- *Proposed by Walter & Luis Alvarez

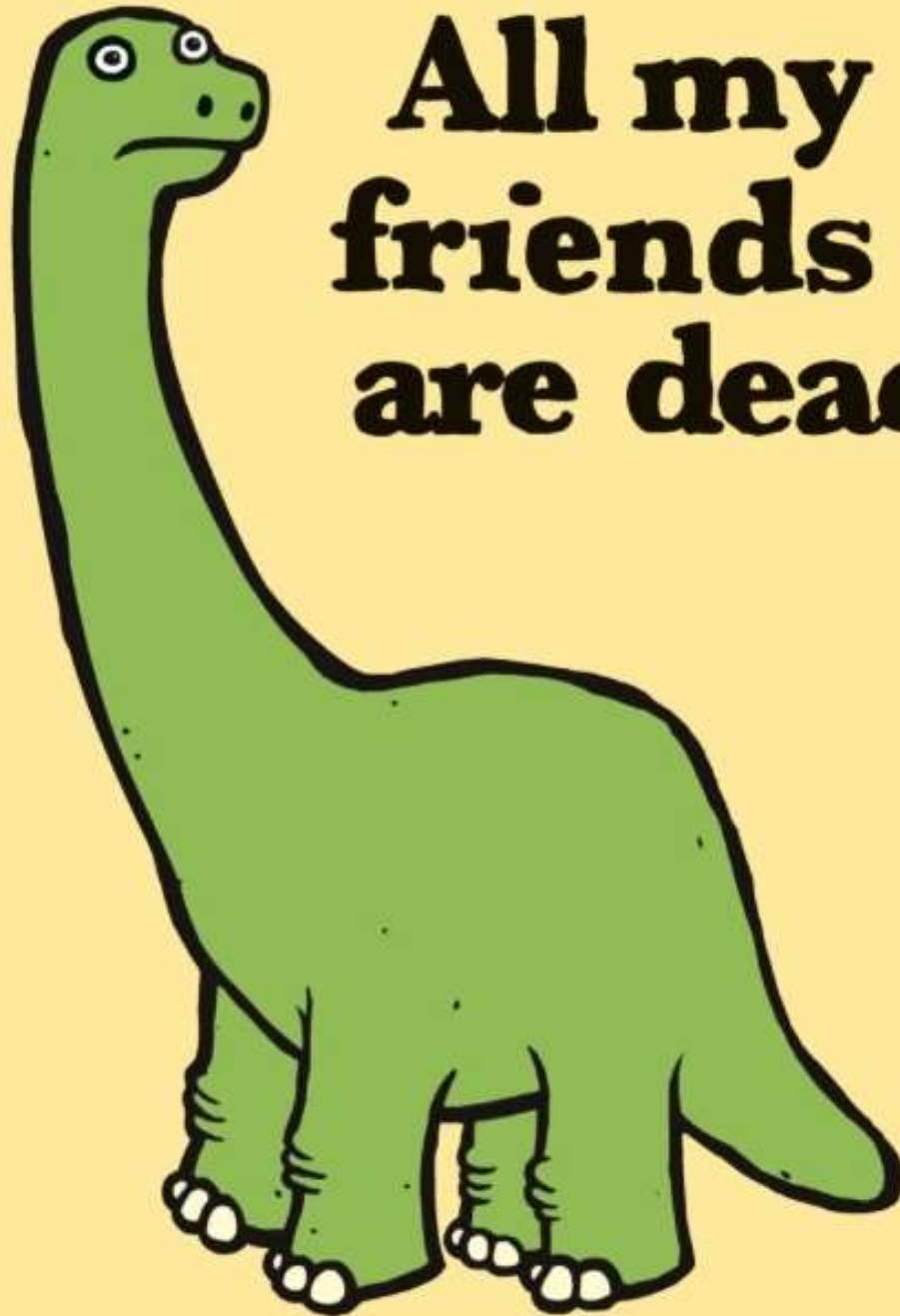
- *Radioactive sediment found between Cretaceous & Tertiary Periods.

- *Due to asteroid collision*



C-T Boundary

- *Proposed by Walter & Luis Alvarez
- *Radioactive sediment found between Cretaceous & Tertiary Periods.
- *Due to asteroid collision
- *Caused dinosaur extinction*



**All my
friends
are dead.**

Cenozoic Era

65 mya – Present

Periods of Cenozoic Era

Tertiary – mammals, present-day features



Periods of Cenozoic Era

Tertiary – mammals, present-day features

Quaternary – humans, ice ages



ICE
AGE

Geologic Time Scale

Geologic Time Lab

[illegible]

Geologic Time Lab

*Color code
according to
Era*

DATE of EVENT

Major Event

Geologic Time Lab



Geologic Time Lab

