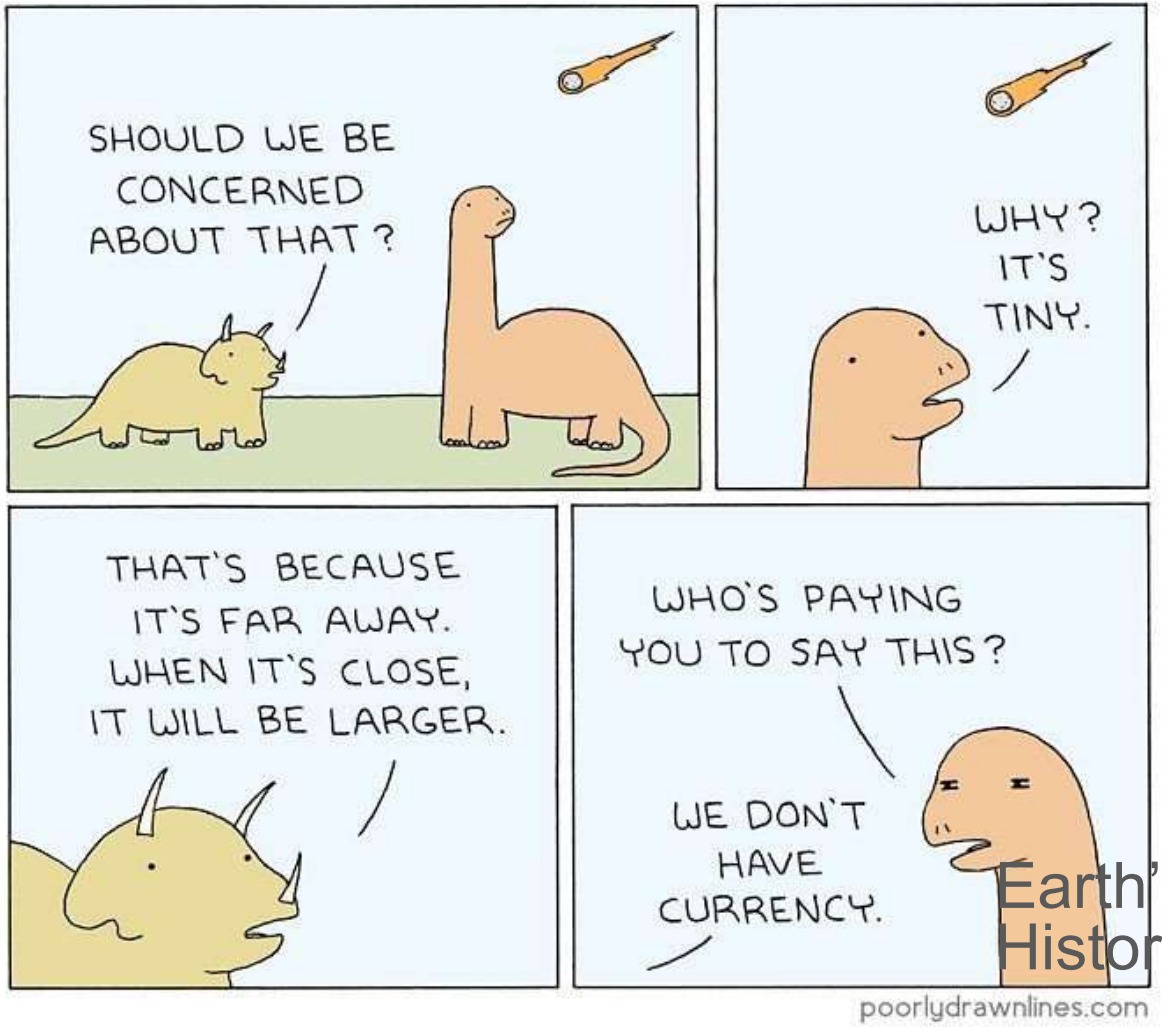
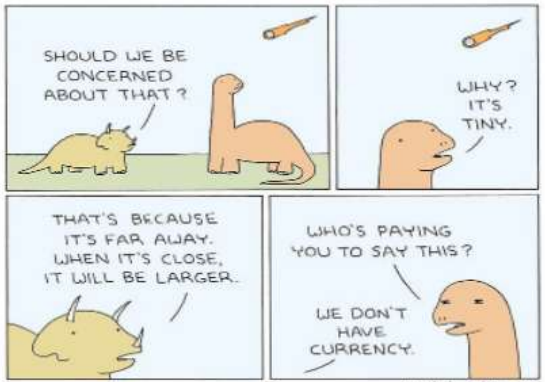
Earth History



Make sure you're completing the Guided Notes.

Name: _____ Period: ____

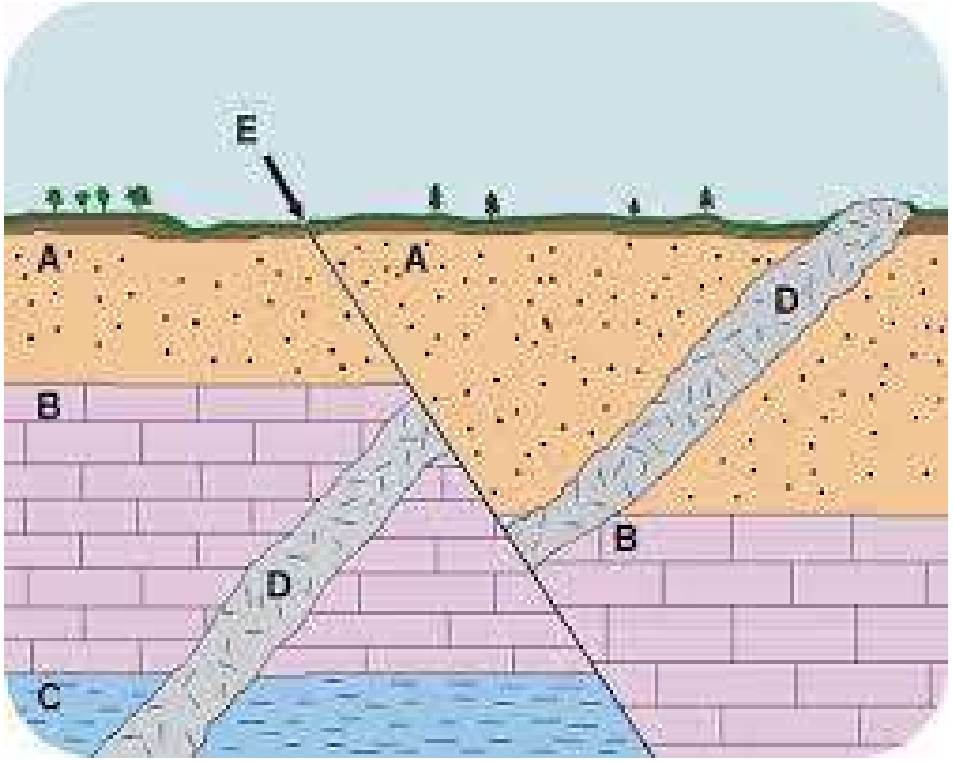
Unit Five Guided Notes



Earth's History

1

Order the events shown from oldest to youngest to produce the outcrop shown below. Justify your response with evidence from the diagram.



Do Now: Get packet. Put your name on it. Answer the question below at your table.

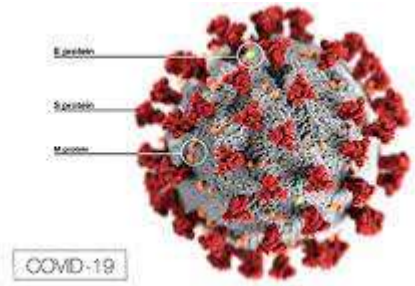
Order the pictures below from oldest to youngest. Explain how you did it.

A

B

C

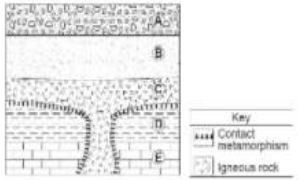
D



Do Now: Complete the three questions on page 5 of your Guided Notes.

Relative Dating Practice

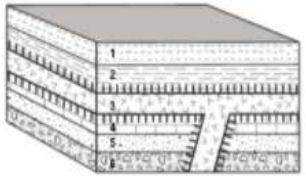
Instructions: For each diagram, order the events that created the outcrop from oldest to youngest. Justify your claim with evidence and reasoning.



(Oldest)

(Youngest)

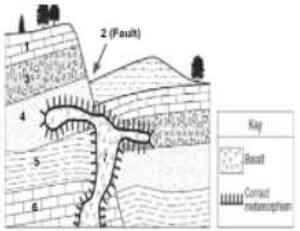
Evidence & Reasoning



(Oldest)

(Youngest)

Evidence & Reasoning



(Oldest)

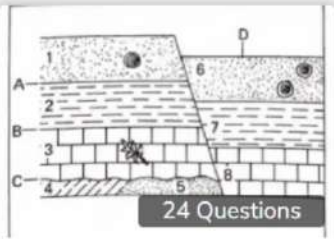
(Youngest)

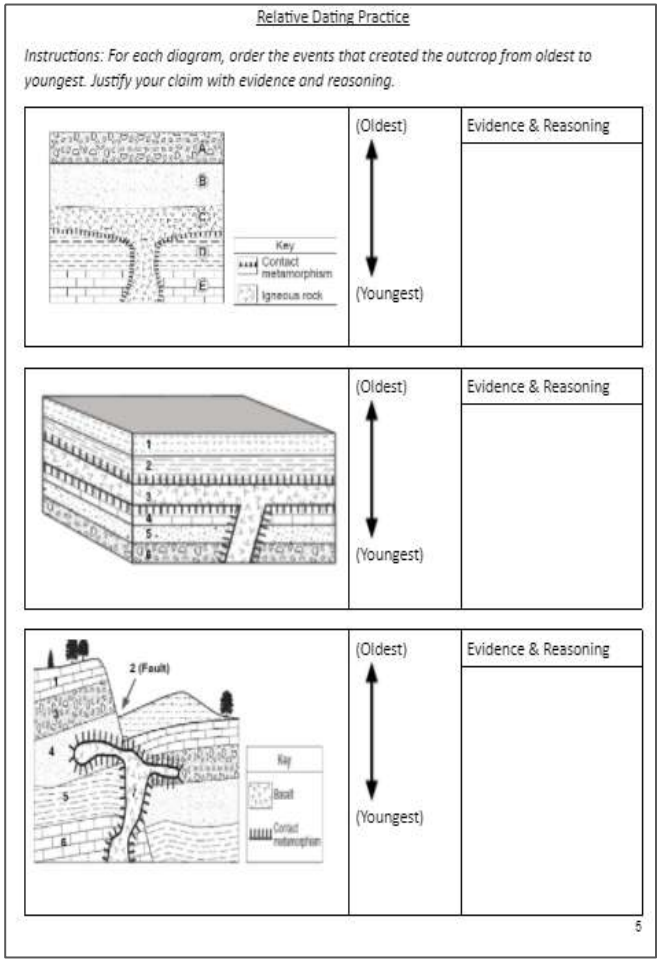
Evidence & Reasoning

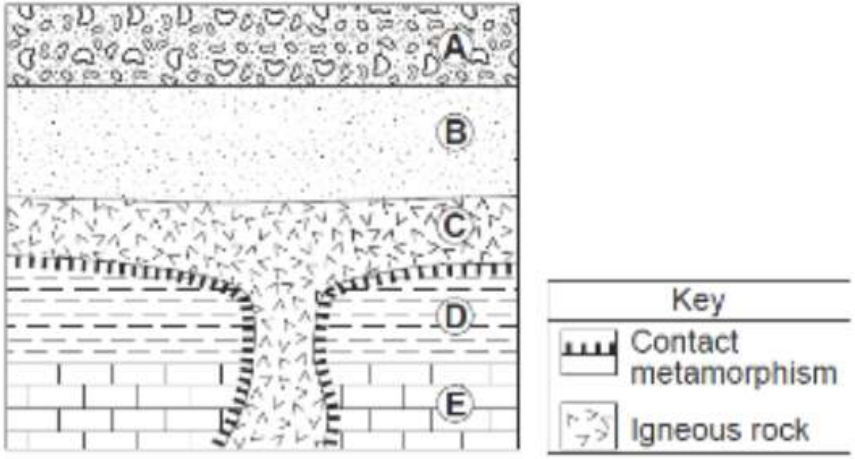
Agenda for 2/9 WED

1. Do Now: Complete page 5
2. Daily Spelling Bee Game
3. Relative Dating Practice reviewed
4. Relative Dating Blooket stolen from someone.

Let's play!



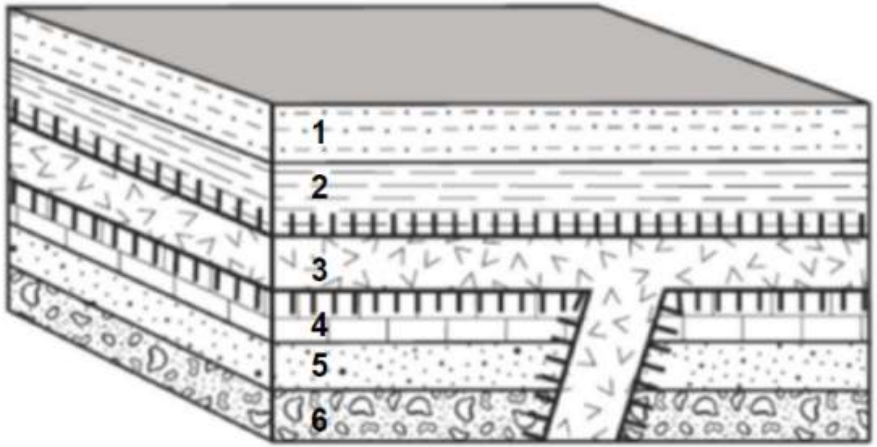




(Oldest)

(Youngest)

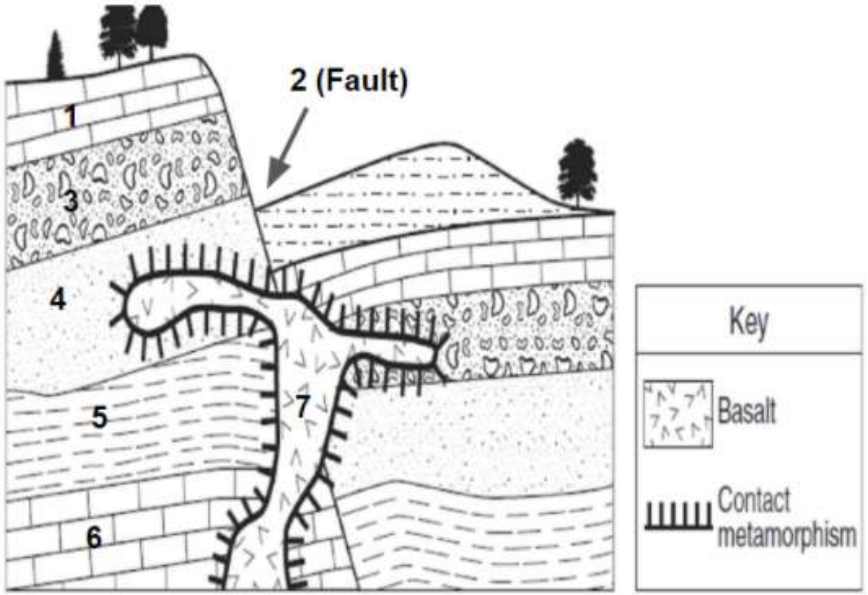
Evidence & Reasoning



(Oldest)

(Youngest)

Evidence & Reasoning

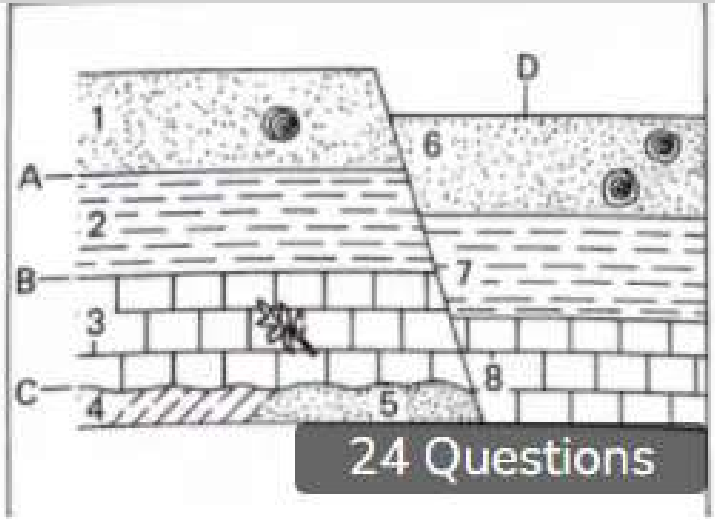


(Oldest)

(Youngest)

Evidence & Reasoning

Let's play!



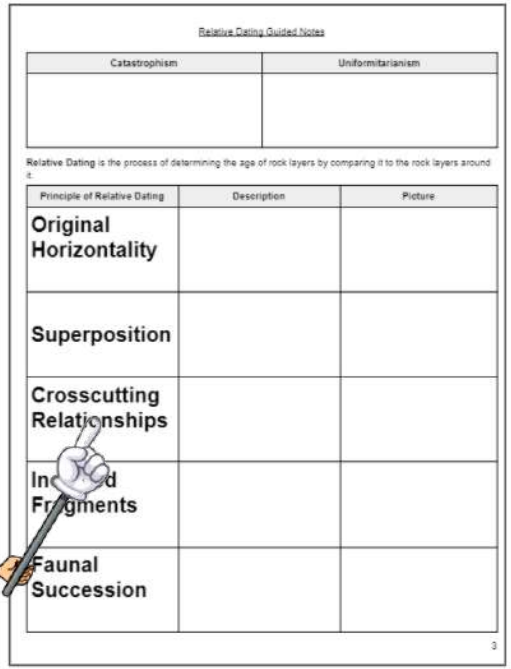
Relative Dating

2,391 Plays

Edited a year ago

Scaperpugs53

At this point you should have your guided notes completed up to page 4-7. Do that if you haven't!



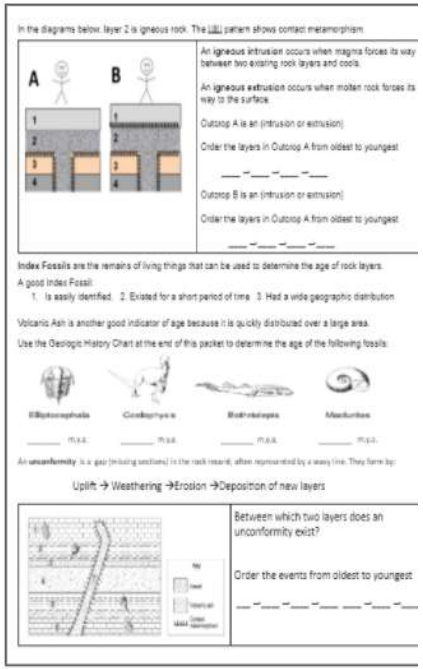
Relative Dating Guided Notes

Catastrophism	Uniformitarianism

Relative Dating is the process of determining the age of rock layers by comparing it to the rock layers around it.

Principle of Relative Dating	Description	Picture
Original Horizontality		
Superposition		
Crosscutting Relationships		
Included Fragments		
Faunal Succession		

3



In the diagrams below, layer 2 is igneous rock. The LINE pattern shows contact metamorphism.

An **igneous intrusion** occurs when magma forces its way between two existing rock layers and cools.

An **igneous extrusion** occurs when molten rock forces its way to the surface.

Outcrop A is an (intrusion or extrusion)

Order the layers in Outcrop A from oldest to youngest

___ -___ -___ -___

Outcrop B is an (intrusion or extrusion)

Order the layers in Outcrop A from oldest to youngest

___ -___ -___ -___

Index Fossils are the remains of living things that can be used to determine the age of rock layers.

A good Index Fossil:

1. Is easily identified. 2. Existed for a short period of time. 3. Had a wide geographic distribution.

Volcanic Ash is another good indicator of age because it is quickly distributed over a large area.

Use the Geologic History Chart at the end of this packet to determine the age of the following fossils:

_____ m.y.a. _____ m.y.a. _____ m.y.a. _____ m.y.a.

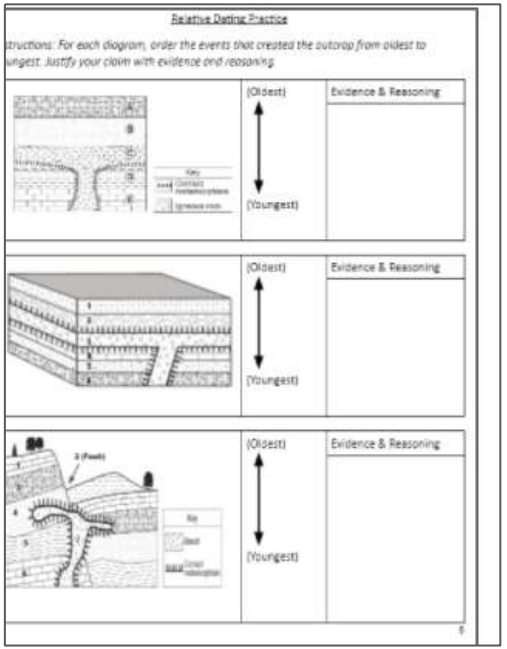
An **unconformity** is a gap (missing sections) in the rock record, often represented by a wavy line. They form by:

Uplift → Weathering → Erosion → Deposition of new layers

Between which two layers does an unconformity exist?

Order the events from oldest to youngest

___ -___ -___ -___ -___ ___ -___ -___



Relative Dating Practice

Instructions: For each diagram, order the events that created the outcrop from oldest to youngest. Justify your claim with evidence and reasoning.

(Oldest) ↕ (Youngest)

Evidence & Reasoning

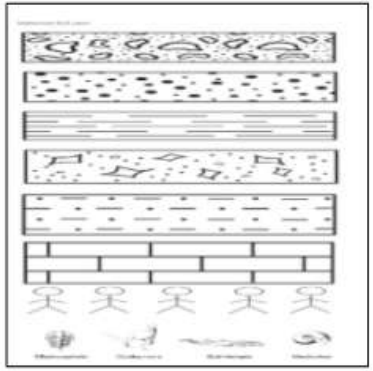
(Oldest) ↕ (Youngest)

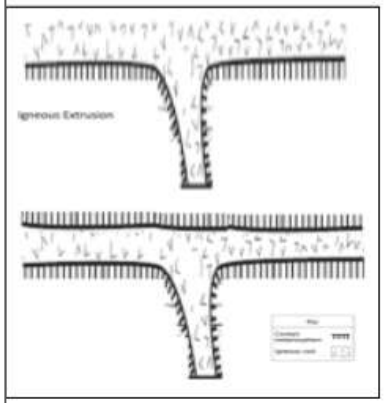
Evidence & Reasoning

(Oldest) ↕ (Youngest)

Evidence & Reasoning

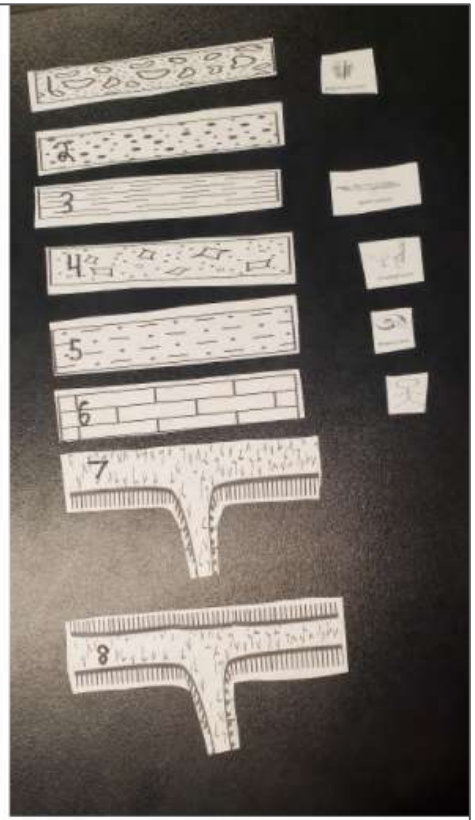
Do Now: Get materials and start cutting. One of each per GROUP!





Cut and label.

Throw away scraps.



Agenda for 2/10 or 2/11

1. Do Now:
2. Daily Spelling Bee Game
3. Kindness Week/Make Good Choices
4. Make It! Relative Dating Game
5. Intermission
6. Out of the Ashes Video & Quiz

Out of the Ashes: Dawn of Mammals Video Quiz

Go to Google Classroom and Open the Video quiz.
Preview the questions…the film will start shortly.

Out of the Ashes: Dawn of Mammals
Video Quiz

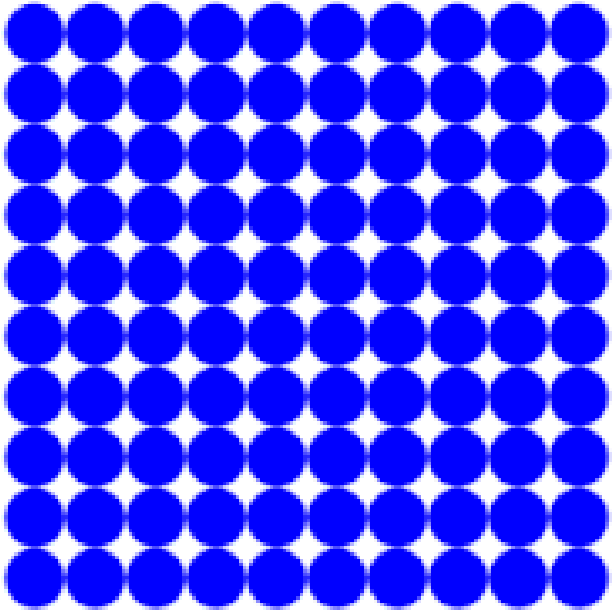

hhmi
BioInteractive

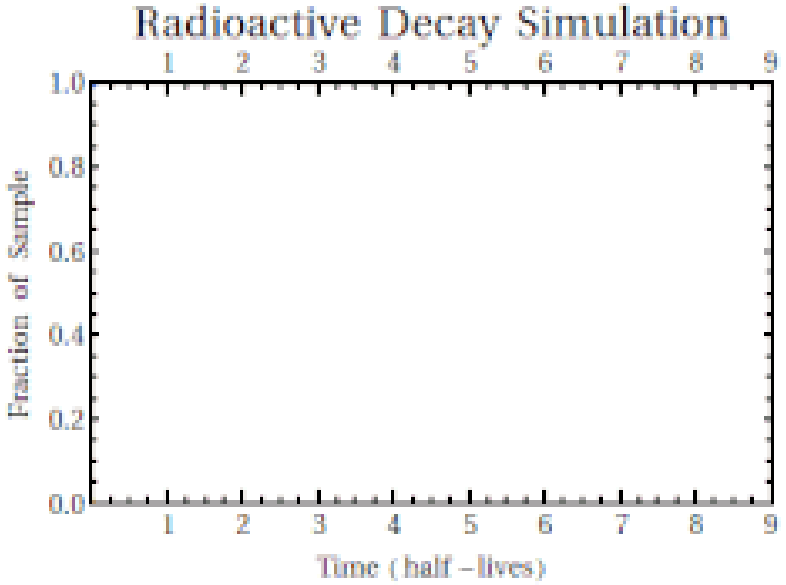
Complete the Video Quiz (Google Classroom)

Out of the Ashes: Dawn of Mammals Video Quiz

Do Now: Observe the diagram below shows the process of radioactive decay. Describe the process.

Get the handouts!





= radioactive and unstable

= stable and not radioactive

Agenda for 2/14

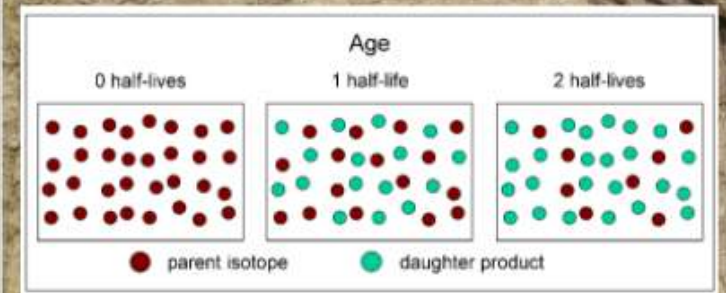
1. Do Now: Half Life Diagram
2. Daily Spelling Bee Game
3. Reminders
4. Valentines Day Interim (Minute Earth & Infidelity)
5. Absolute Dating Modeling
    a. Modeling
    b. Graphing
    c. Discussion Questions

Happy Valentines Day!

According to this video:

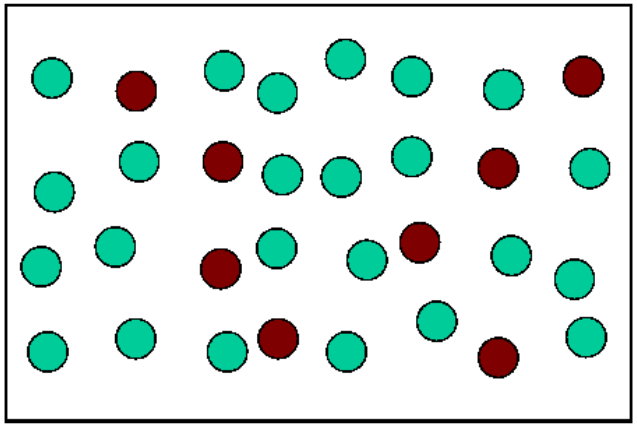
1. What is an evolutionary argument against monogamy?
2. What is an evolutionary argument for monogamy?

Absolute Dating Modeling Lab

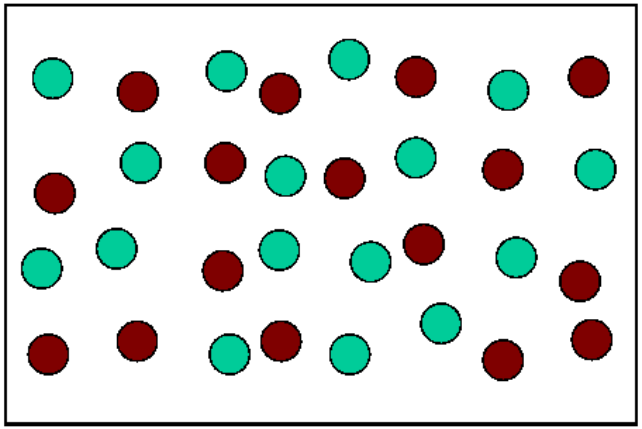


Do Now: Observe the two samples below. Which is older? Cite evidence for your claim.

Sample A



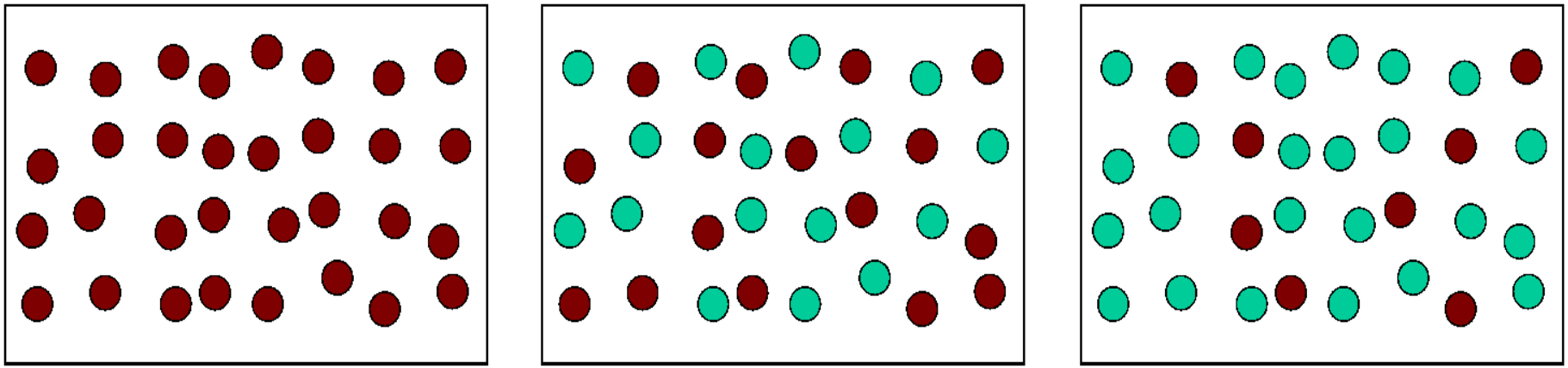
Sample B



= Carbon-14

= Nitrogen-14

Bonus: How old are each?



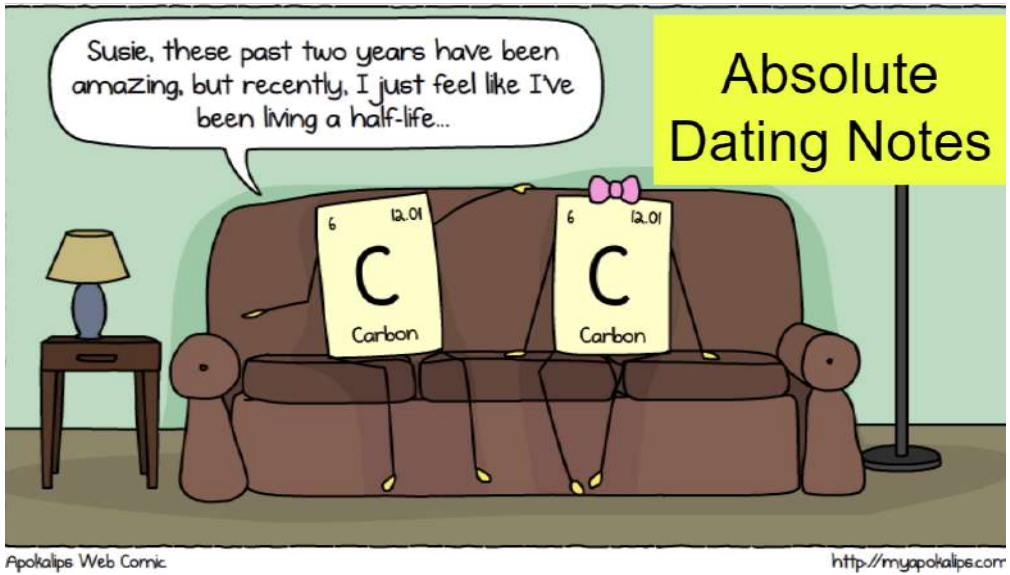
Sample B ***Sample A***

= Carbon-14 **= Nitrogen-14**

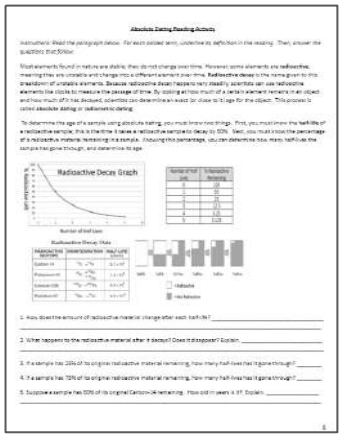
Bonus: How old are each?

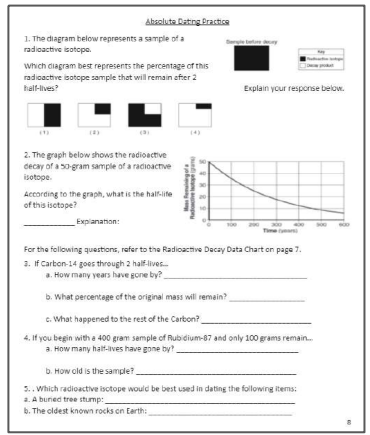
Agenda for 2/15

1. Do Now:
2. Daily Spelling Bee Game
3. Complete pages 6 & 7 of the Guided Notes by using the Absolute Dating Notes Slides.
4. Complete page 8 of the Guided Notes (Absolute Dating Practice)

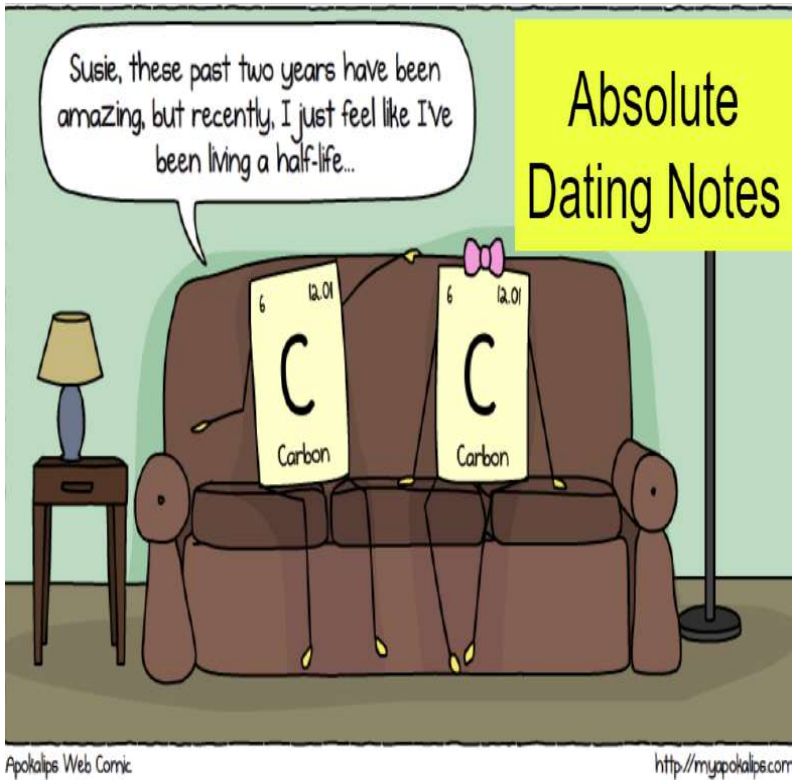


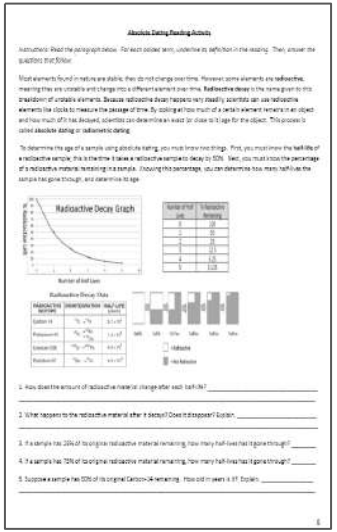
Unit 5 Quiz 1: Relative Dating will be posted this week.

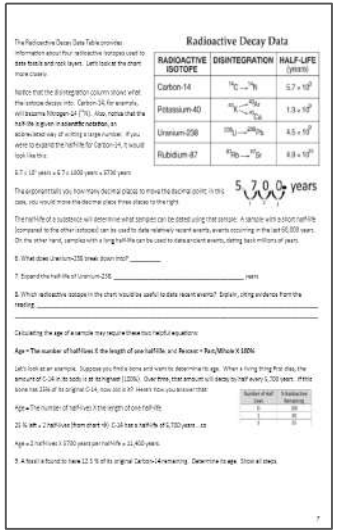


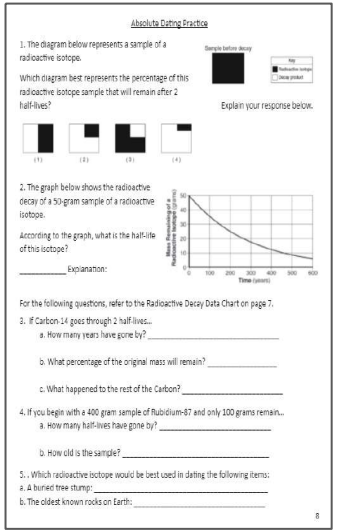


This period: Use the Absolute Dating Notes Slides (link) to complete pages 6-8 of your Guided Notes.





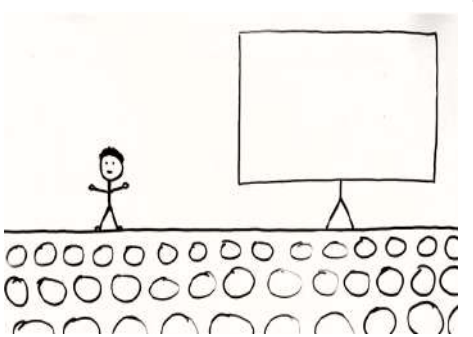




Access these slides through the Google Classroom…ask if you need help.

Do Now: Use the Whiteboard to create a question related to one of the skills listed below.

Other tables will try to answer your question.
~~Stump the class and earn a point for your team.~~



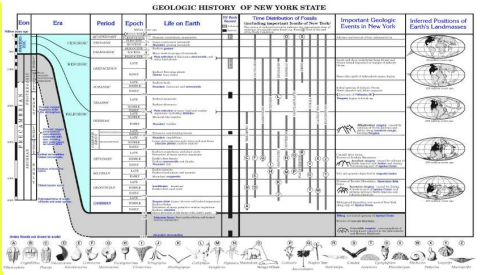
1..Describe the concept of Uniformitarianism and contrast it with the concept of catastrophism.
2. Apply the principles of relative dating listed below to determine the order of events evident in a rock outcrop. - Principle of Original Horizontality - Principle of Superposition - Principle of Crosscutting Relationships - Principle of Included Fragments - Principle of Faunal Succession
3. Identify whether a fossil would be a good index fossil based on the three qualities of index fossils.

Agenda for 2/16

1. Do Now: Create a Question
2. Daily Spelling Bee Game
3. Write It on the Whiteboard: Relative Dating

Unit 5 Quiz 1: Relative Dating will be posted this week during Block.

Do Now: Use the chart on the last two pages of your guided notes to complete the sentences below.



The Phanerozoic _____ is made up of three eras: the _____,

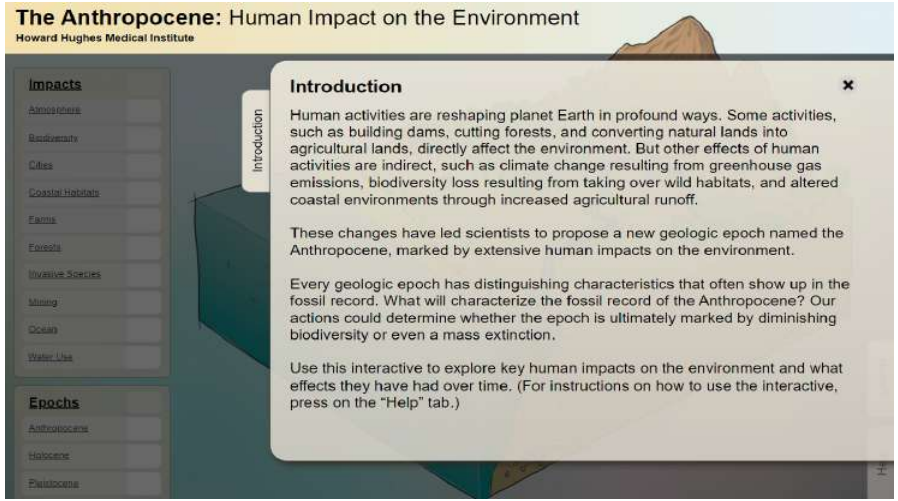
the _____, and the _____.

Dinosaurs first appeared during the _____ period.

The last ice age occurred during the _____ epoch.

Agenda for 2/17 or 2/18

1. Do Now:
2. Daily Spelling Bee Game
3. Video: Geologic Time Scale
4. Exploring the Anthropocene Activity
5. Intermission
6. Unit 5 Quiz 1: Relative Dating



Today you will be doing an activity exploring the Anthropocene epoch…but before you do that you should probably know a little bit about the geologic time scale. Let's watch a brief video on the next slide.

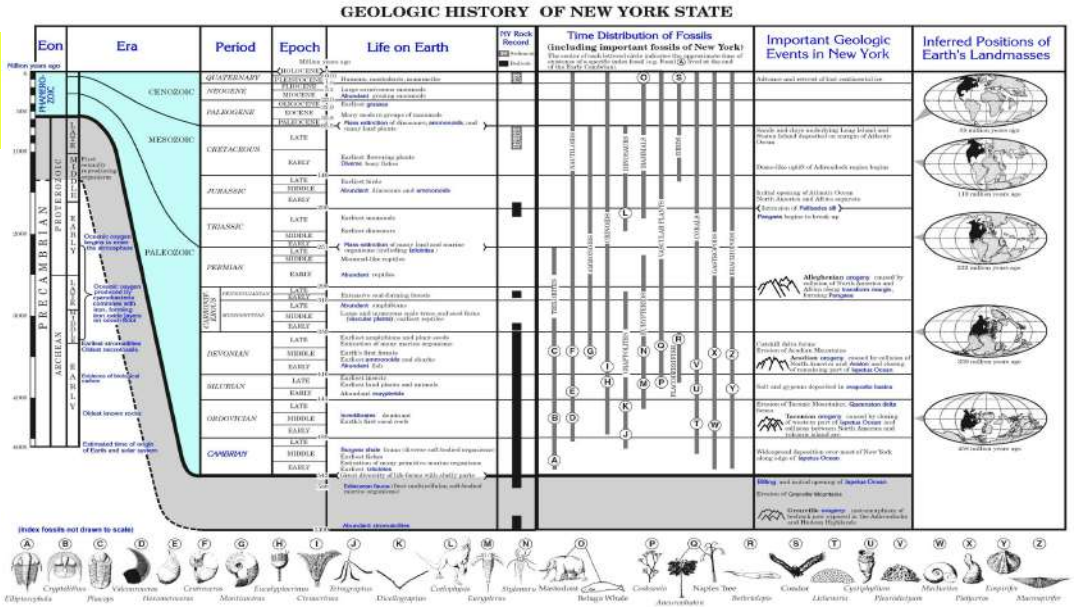

ROAR
THE GEOLOGIC TIME SCALE

Let's review these!

The Phanerozoic **Eon** is made up of three eras: the **Paleozoic**, the **Mesozoic**, and the **Cenozoic**.

Dinosaurs first appeared during the **Triassic** period.

The last ice age occurred during the **Pleistocene** epoch.



Complete the Exploring the Anthropocene Activity (Google Classroom)

Anthropocene: Human Impact on the Environment

Introduction: In this activity by the Howard Hughes Medical Institute, you will learn about how humans are affecting global ecosystems. You will examine data that scientists use to determine whether we are entering a new geological time called the Anthropocene.

Directions:

- Read the introduction tab on the right side of the screen.

In general, what is the Anthropocene epoch marked by?

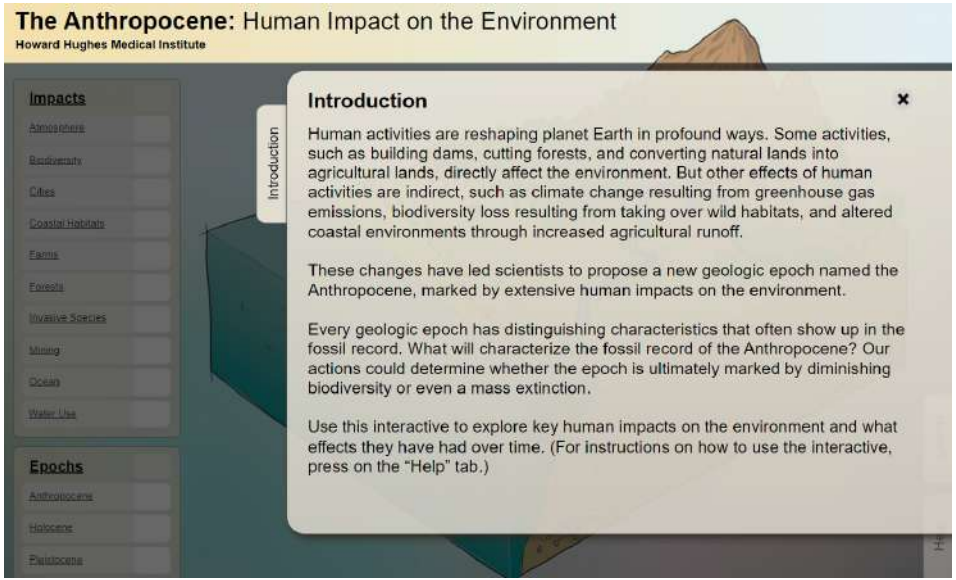
- Fill in this table by clicking the links on the left side of the screen. (summarize)

Anthropocene	Begins with: Characterized by:
Holocene	Begins with: Characterized by:
Pleistocene	Begins with: Characterized by:

- Click the box and add the checkmark next to the 'EPOCHS' link. This adds labels to the illustration showing all 3 epochs.

What looks different about the top rock layer, compared to the two below? (NOT color or thickness)

- Now you are going to explore the various 'impacts'. Feel free to observe as many as you like. Choose 3 to record some notes about in the table.



This period, complete the Unit 5 Quiz 1: Relative Dating

Unit 5 Quiz 1: Relative Dating

ssullivan@lcer.org Switch account

Draft restored

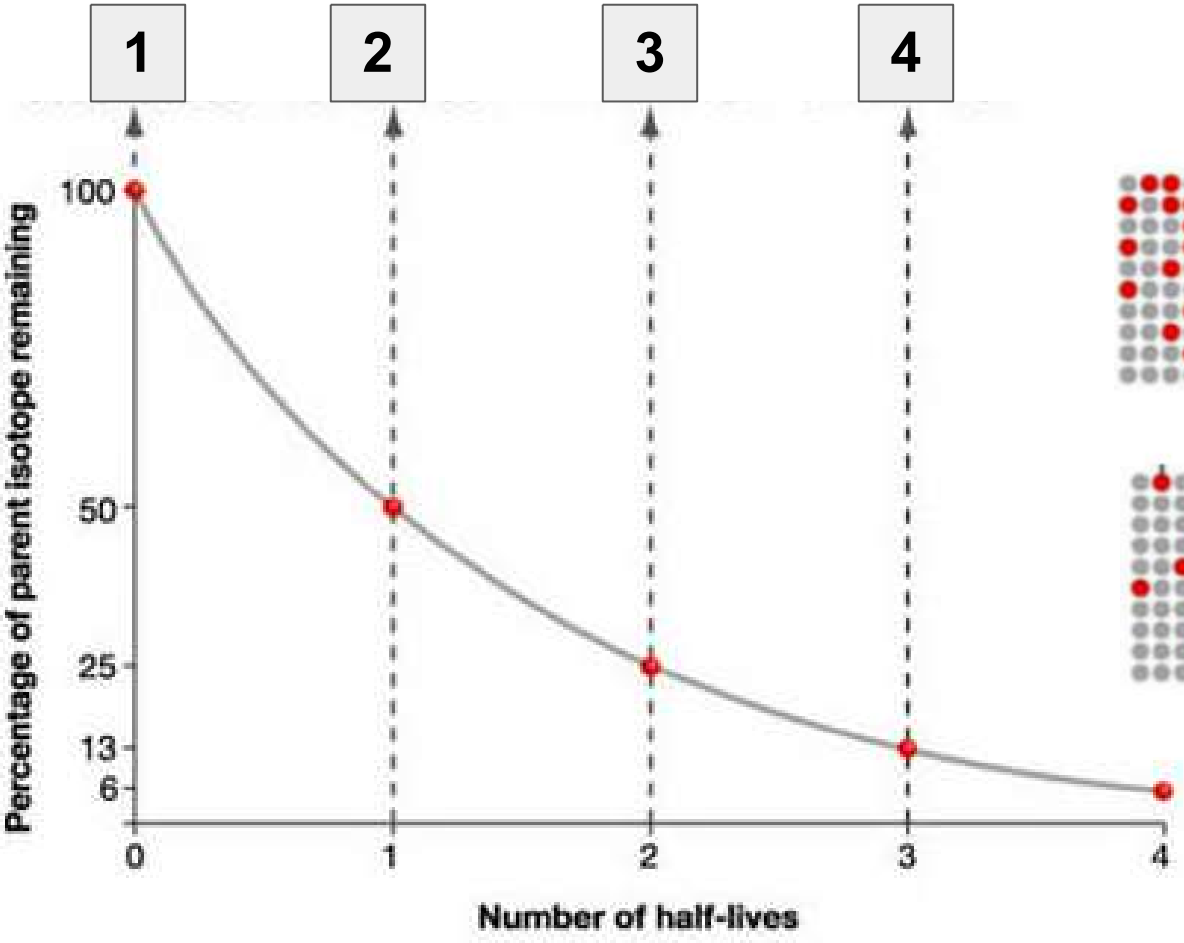
Your email will be recorded when you submit this form

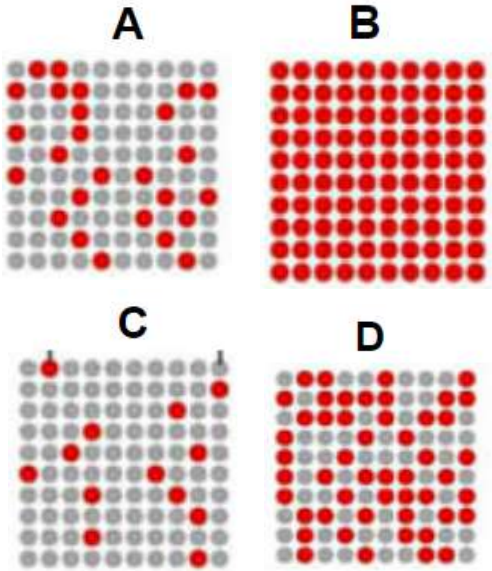
* Required

Do Now: Match the pictures with their place on the graph.

= radioactive

= decay product

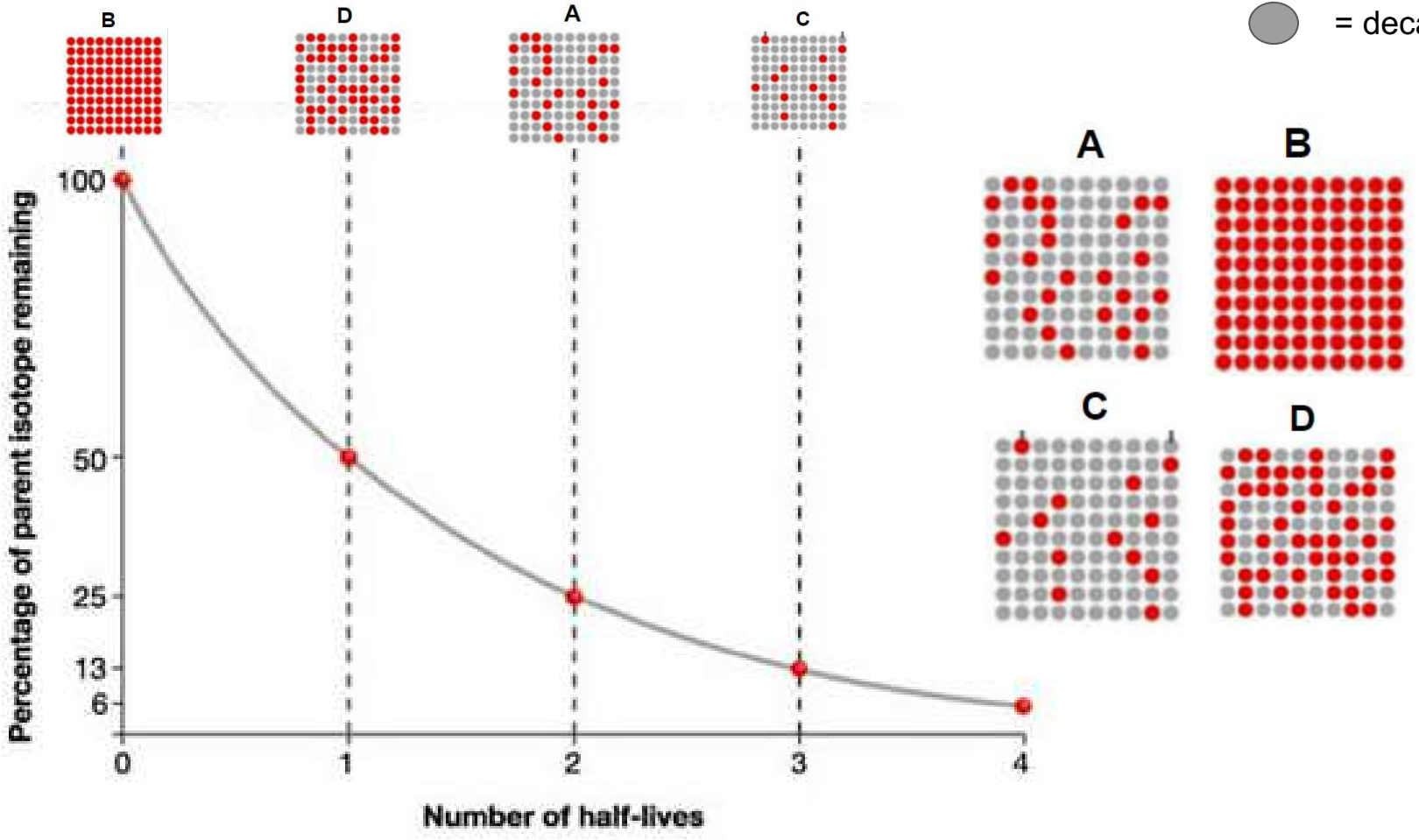




Match the pictures with their place on the graph.

= radioactive

= decay product

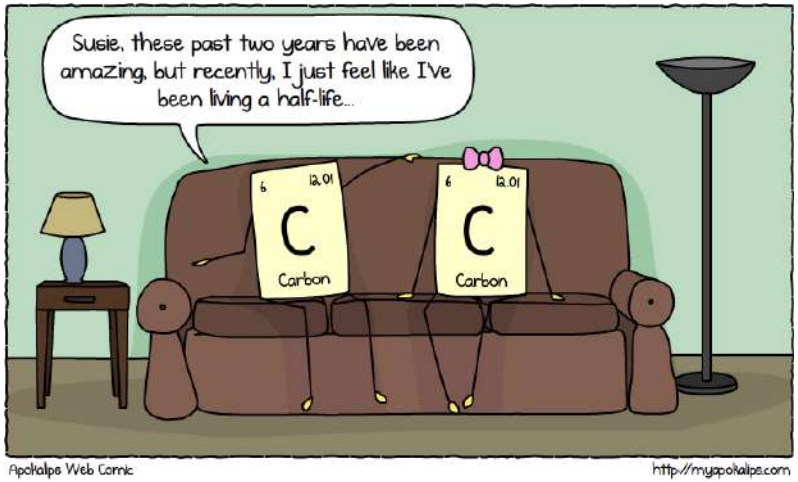


Agenda for 2/22

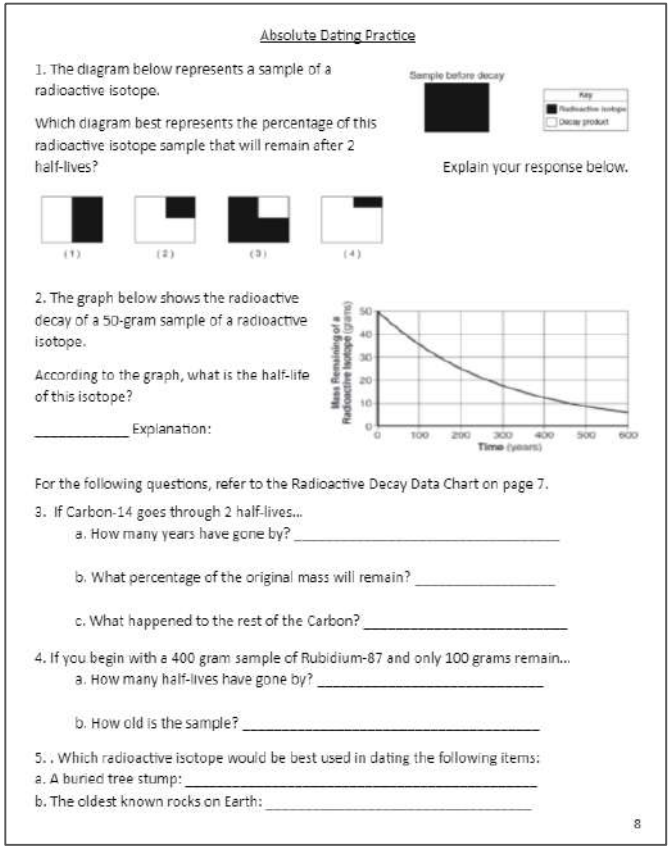
1. Do Now: Absolute Dating Matching
2. Daily Spelling Bee Game
3. Regarding Tomorrow…
4. Absolute Dating Practice Reviewed (Page 11 of the Guided Notes)
5. Absolute dating Blooket Review

Unit 5 Quiz 1 will be graded tomorrow.

Unit 5 Quiz 2: Absolute Dating posted this week during Block period.



Let's review the Absolute Dating Practice on page 11…



Absolute Dating Practice

1. The diagram below represents a sample of a radioactive isotope.

Which diagram best represents the percentage of this radioactive isotope sample that will remain after 2 half-lives?

Sample before decay

Key
Radioactive isotope
Decay product

Explain your response below.

(1) (2) (3) (4)

2. The graph below shows the radioactive decay of a 50-gram sample of a radioactive isotope.

According to the graph, what is the half-life of this isotope?

_____ Explanation:

Mass Remaining of a Radioactive Isotope (grams)
50 40 30 20 10 0
0 100 200 300 400 500 600
Time (years)

For the following questions, refer to the Radioactive Decay Data Chart on page 7.

3. If Carbon-14 goes through 2 half-lives...
   a. How many years have gone by? _____
   b. What percentage of the original mass will remain? _____
   c. What happened to the rest of the Carbon? _____

4. If you begin with a 400 gram sample of Rubidium-87 and only 100 grams remain...
   a. How many half-lives have gone by? _____
   b. How old is the sample? _____

5. . Which radioactive isotope would be best used in dating the following items:
a. A buried tree stump: _____
b. The oldest known rocks on Earth: _____

8

FYI:

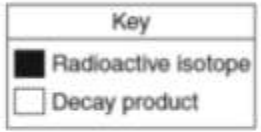
This week's quiz will be on this topic.

Absolute Dating Practice

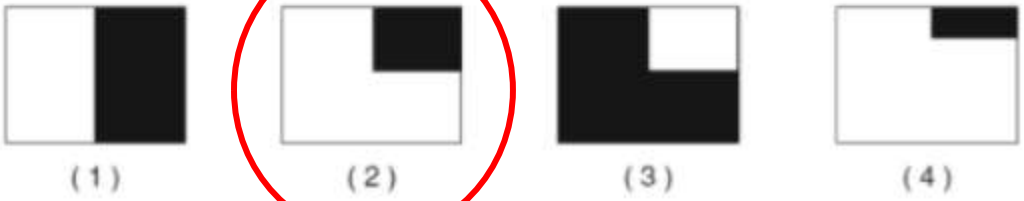
1. The diagram below represents a sample of a radioactive isotope.

Which diagram best represents the percentage of this radioactive isotope sample that will remain after 2 half-lives?

Sample before decay

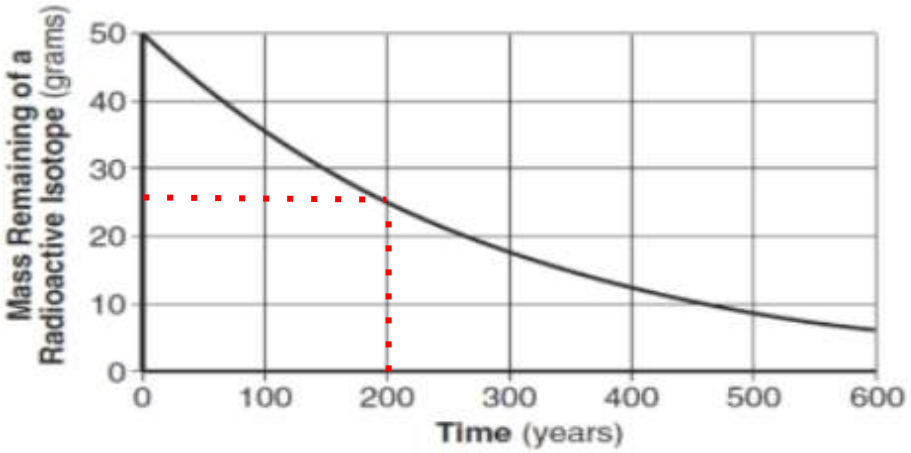


Explain your response below.



After 2 half lives, there will be 25% of the radioactive sample left.

2. The graph below shows the radioactive decay of a 50-gram sample of a radioactive isotope.



According to the graph, what is the half-life of this isotope?

200 years Explanation:

A half life is the time it takes for a radioactive sample to decay by 50%.

For the following questions, refer to the Radioactive Decay Data Chart on page 7.

3. If Carbon-14 goes through 2 half-lives...

a. How many years have gone by? **11,400 years**

b. What percentage of the original mass will remain? **25%**

c. What happened to the rest of the Carbon? **It became Nitrogen-14**

Radioactive Decay Data

RADIOACTIVE ISOTOPE	DISINTEGRATION	HALF-LIFE (years)
Carbon-14	$^{14}C \rightarrow {}^{14}N$	5.7×10^3
Potassium-40	$^{40}K \rightarrow {}^{40}Ar$ and $^{40}K \rightarrow {}^{40}Ca$	1.3×10^9
Uranium-238	$^{238}U \rightarrow {}^{206}Pb$	4.5×10^9
Rubidium-87	$^{87}Rb \rightarrow {}^{87}Sr$	4.9×10^{10}

4. If you begin with a 400 gram sample of Rubidium-87 and only 100 grams remain…

a. How many half-lives have gone by? **2 half lives**

b. How old is the sample? **9.8×10^{10} years**

Radioactive Decay Data

RADIOACTIVE ISOTOPE	DISINTEGRATION	HALF-LIFE (years)
Carbon-14	$^{14}C \rightarrow {}^{14}N$	5.7×10^{3}
Potassium-40	$^{40}K \rightarrow {}^{40}Ar$ and $^{40}K \rightarrow {}^{40}Ca$	1.3×10^{9}
Uranium-238	$^{238}U \rightarrow {}^{206}Pb$	4.5×10^{9}
Rubidium-87	$^{87}Rb \rightarrow {}^{87}Sr$	4.9×10^{10}

5. . Which radioactive isotope would be best used in dating the following items:

a. A buried tree stump: C-14 (because of its short half life and organic material)

b. The oldest known rocks on Earth: Uranium-238 (long half life)

Radioactive Decay Data

RADIOACTIVE ISOTOPE	DISINTEGRATION	HALF-LIFE (years)
Carbon-14	$^{14}C \rightarrow {}^{14}N$	5.7×10^3
Potassium-40	$^{40}K \rightarrow {}^{40}Ar$, $^{40}K \rightarrow {}^{40}Ca$	1.3×10^9
Uranium-238	$^{238}U \rightarrow {}^{206}Pb$	4.5×10^9
Rubidium-87	$^{87}Rb \rightarrow {}^{87}Sr$	4.9×10^{10}

Let's play!


Susie, these past two years have been amazing but recently I just feel like I've been living a half-life...
C
Carbon
C
Carbon
20 Questions
Absolute Dating

I hoped you learned something…don't forget:

- Unit 5 Quiz 1: Relative Dating is posted. Grades will go in this week.
- Unit 5 Quiz 2: Absolute Dating will be posted this week. Questions will be similar to today's game. Make sure you have completed up to page 8 of the Guided Notes.

Unit 5 Quiz 1: Relative Dating

ssullivan@lcer.org Switch account

Draft restored

Your email will be recorded when you submit this form

* Required

Unit 5 Quiz 2: Absolute Dating

ssullivan@lcer.org Switch account

Your email will be recorded when you submit this form

* Required

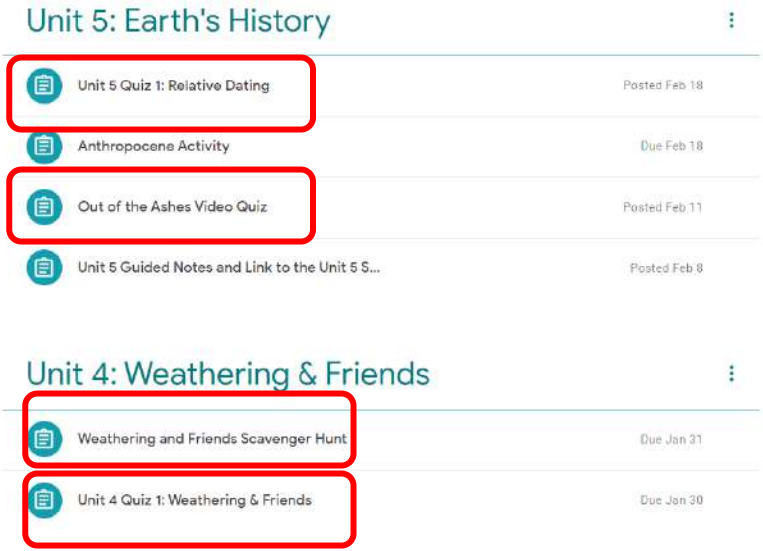
Agenda for 2/23

Today in class, you can do the following:

1. Do/Redo Unit 5 Quiz 1: Relative Dating
2. Do/Redo Unit 4 Quiz 1: Weathering & Friends
3. Do/Redo Weathering Scavenger Hunt
4. Do/Redo Out of the Ashes Quiz (Period 2 & 6 only)

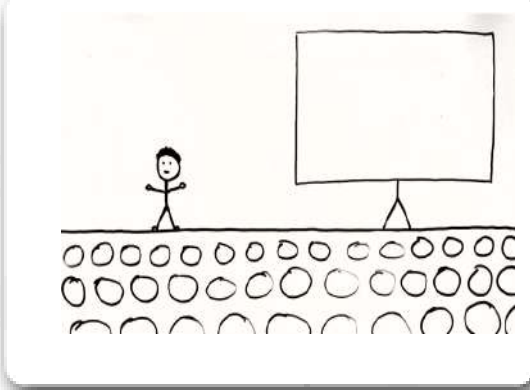
*Links can be found in Google Classroom

Check your email for “Missing Assignments email from your teacher.



Do Now: Use the Whiteboard to create a question related to one of the skills listed below.

Other tables will try to answer your question. Stump the class and earn a point for your team.



Use absolute dating (radiometric dating) to determine the age of a rock sample.

Agenda for 2/24

1. Do Now:
2. Daily Spelling Bee Game
3. Write It on the Whiteboard: Absolute Dating
4. In Class Break
5. Unit 5 Quiz 2: Absolute Dating posted

Unit 5 Quiz 1 has been graded.

Email if you do it late.

Unit 5 Test next week

This period, complete the Unit 5 Quiz 2: Absolute Dating

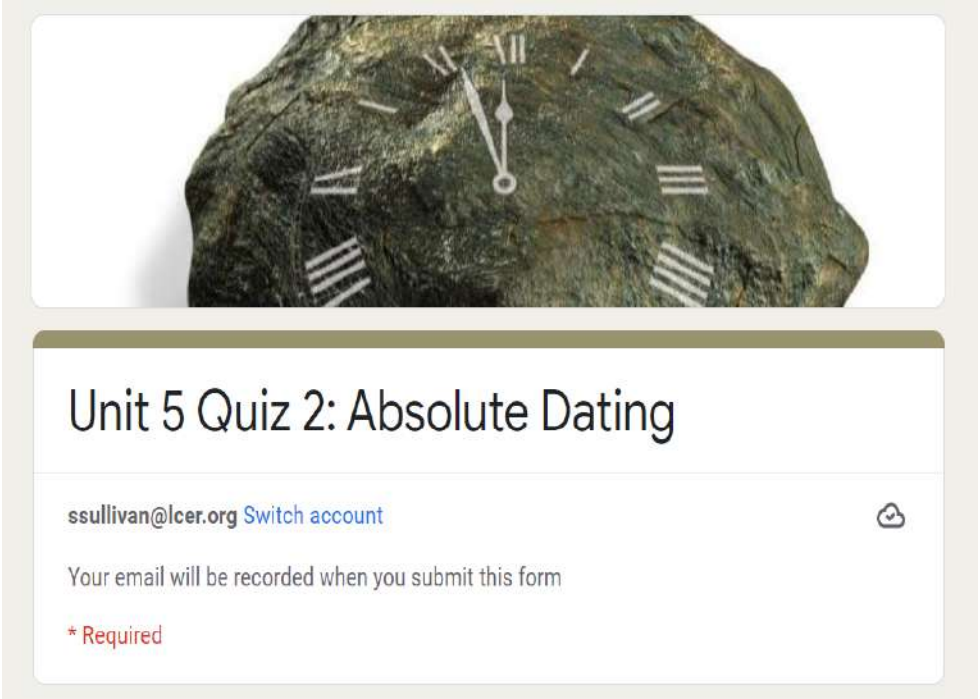
- Use your notes to complete the quiz.

- Scores will be released at the end of the day.

- Grades will be put into Infinite Campus next week.

- You only need to email me if you do/redo this assignment AFTER grades have been posted into Infinite Campus.

MISSING grades will go in for students who don't complete the



Stuff you can be working on now…

Unit 5 Quiz 2: Absolute Dating

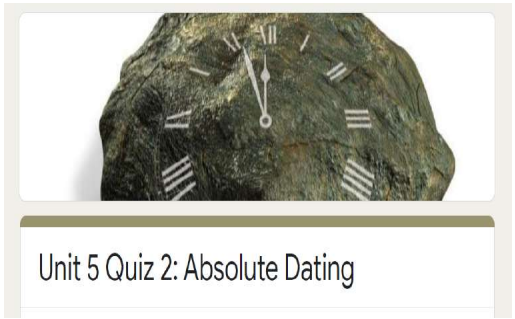
Unit 5 Quiz 1: Relative Dating

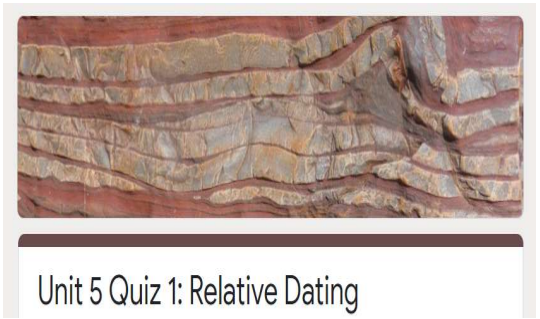
Out of the Ashes Video Quiz

Unit 4 Quiz: Weathering & Friends

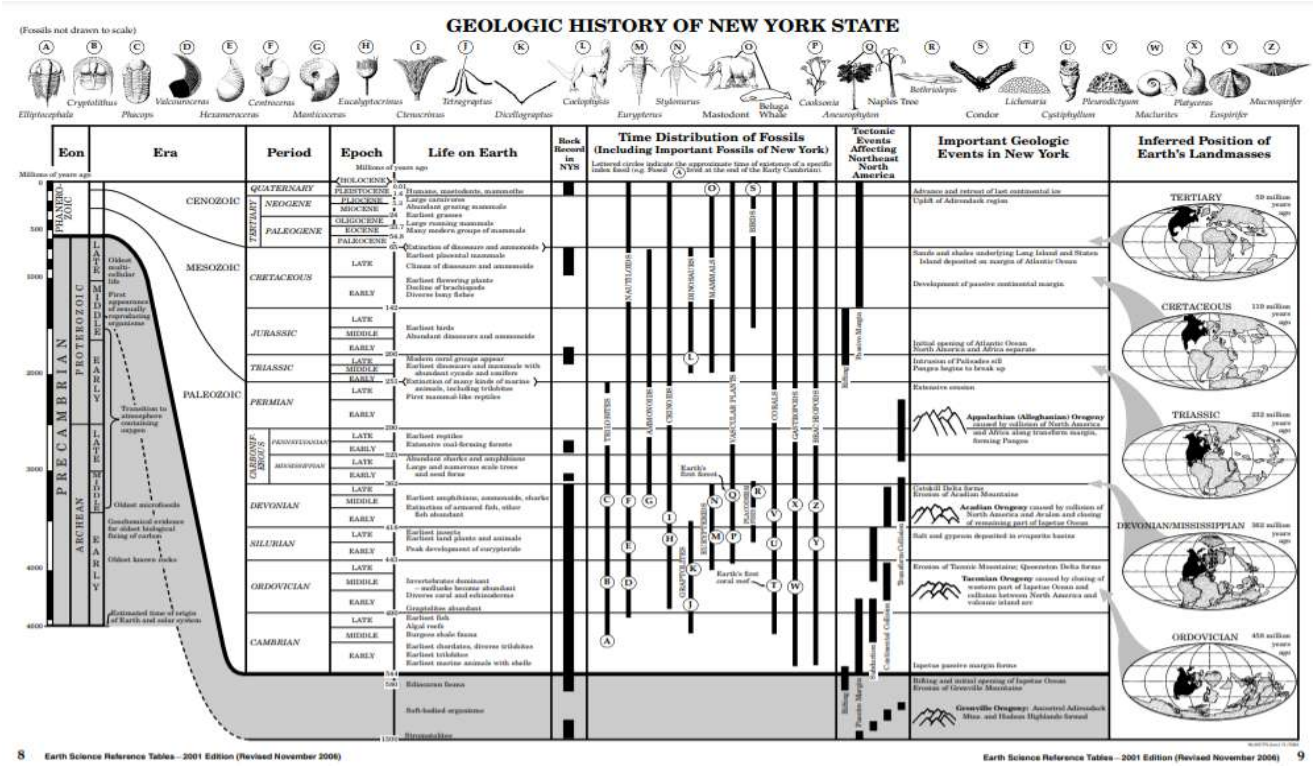
Weathering Scavenger Hunt

Access on Google Classroom





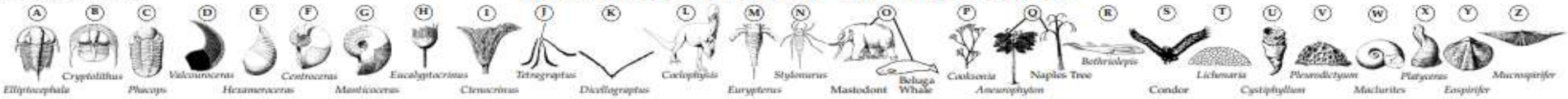
Do Now: Open your guided notes to pages 12 & 13.

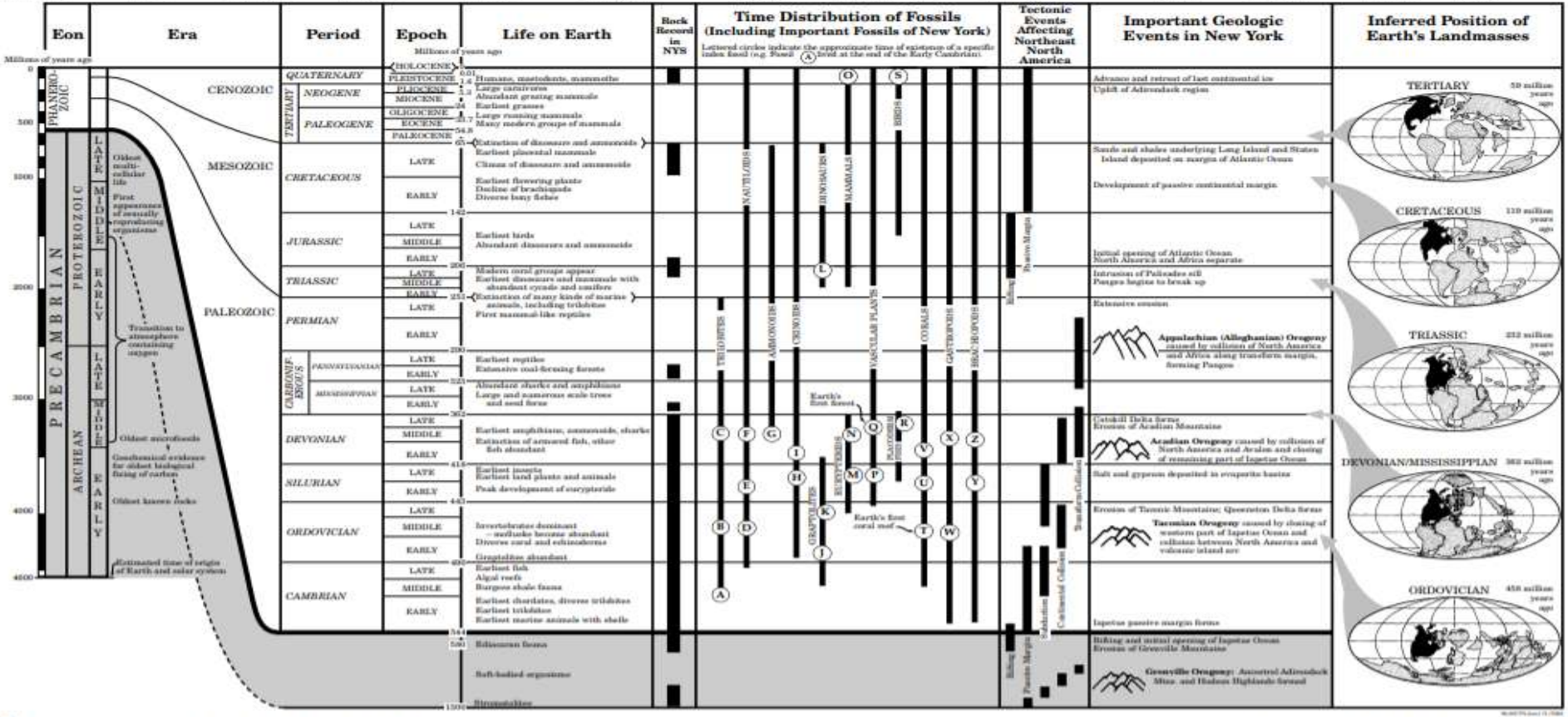


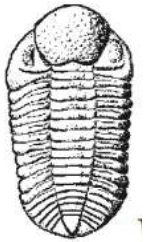
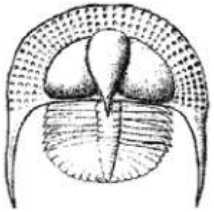
At your table, create Two truths and a lie based on this chart. USE THE WHITEBOARD.

GEOLOGIC HISTORY OF NEW YORK STATE

(Fossils not drawn to scale)

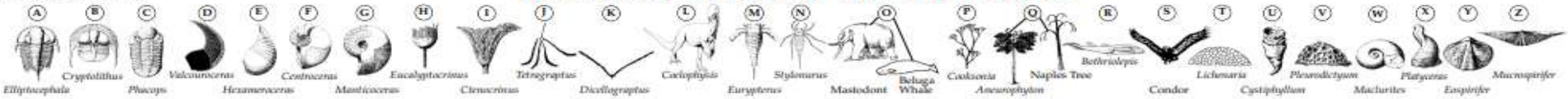


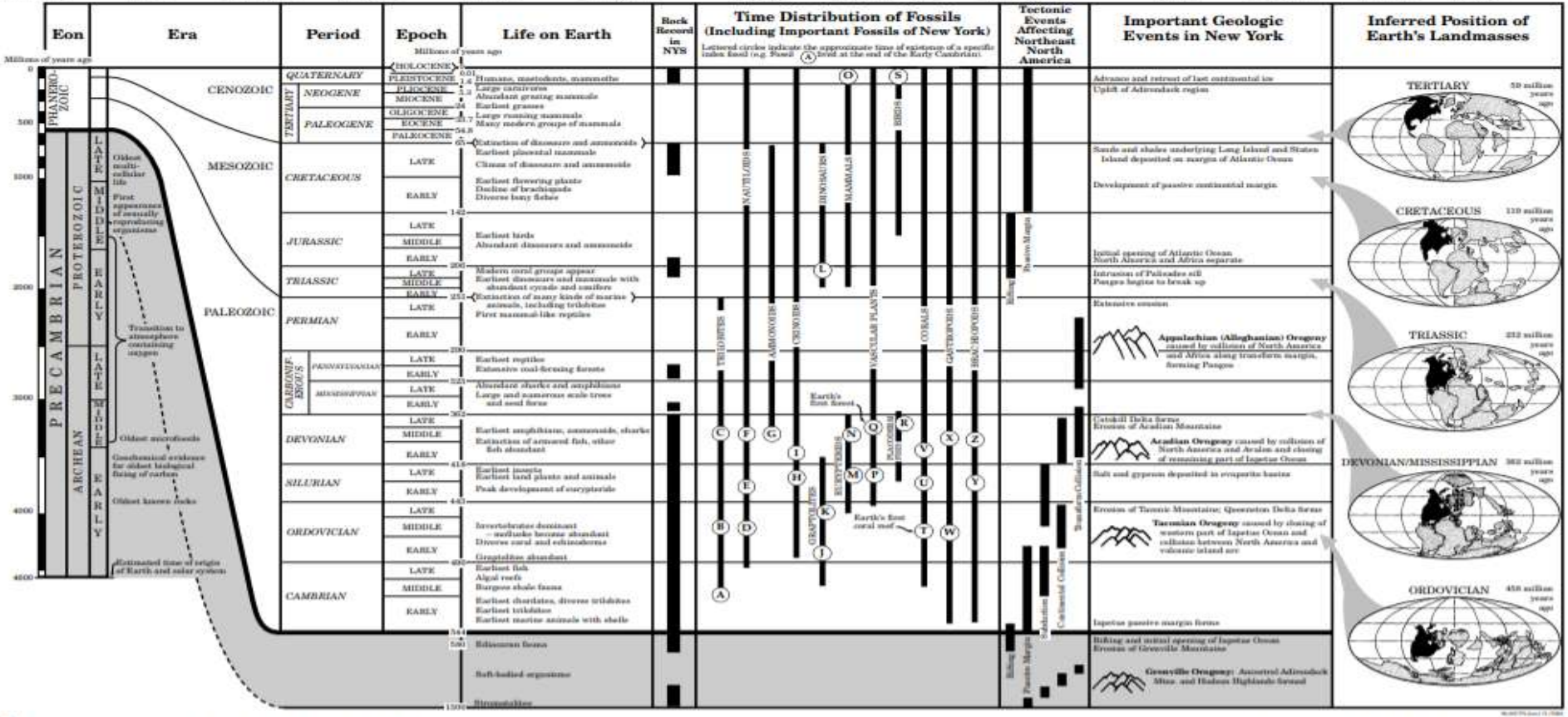


#	Statement	Truth or Lie
1	This is a trilobite 	Truth
2	This is a trilobite 	Lie
3	This is a trilobite 	Truth

GEOLOGIC HISTORY OF NEW YORK STATE

(Fossils not drawn to scale)

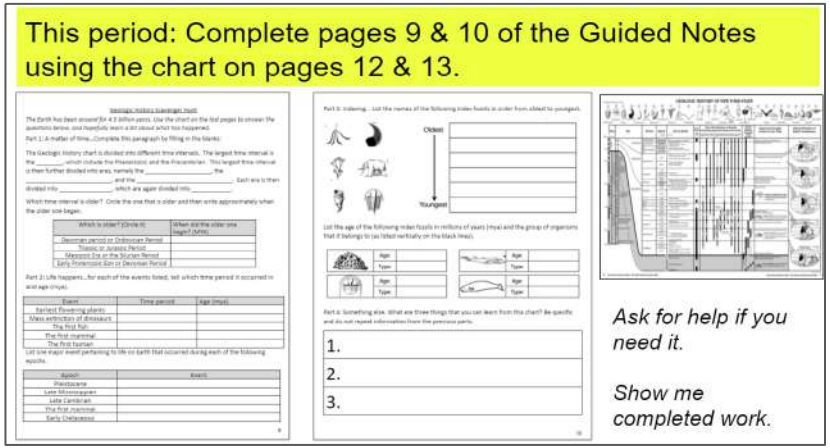




#	Statement	Truth or Lie
1	An epoch is longer than an eon.	Lie
2	An Era is longer than a period.	Truth
3	The Paleozoic Era was longer than the Mesozoic Era.	Truth

Agenda for 2/28

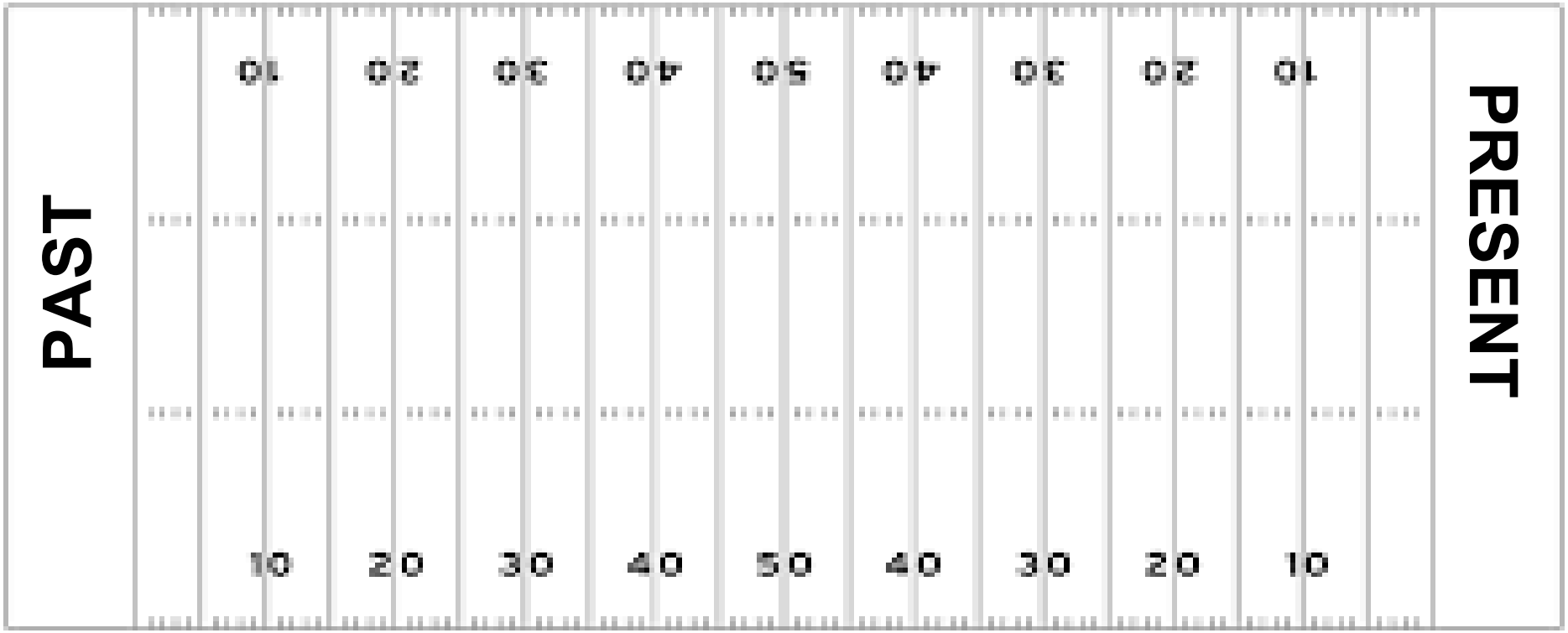
1. Do Now: Two Truths and a Lie Game
2. Daily Spelling Bee
3. Video: Geologic Time on a Football Field.
4. Geologic History Scavenger Hunt
   a. Complete pages 9 & 10 of the Guided Notes using the chart on pages 12 & 13.



Unit 5 Quiz 2 grades go in today.

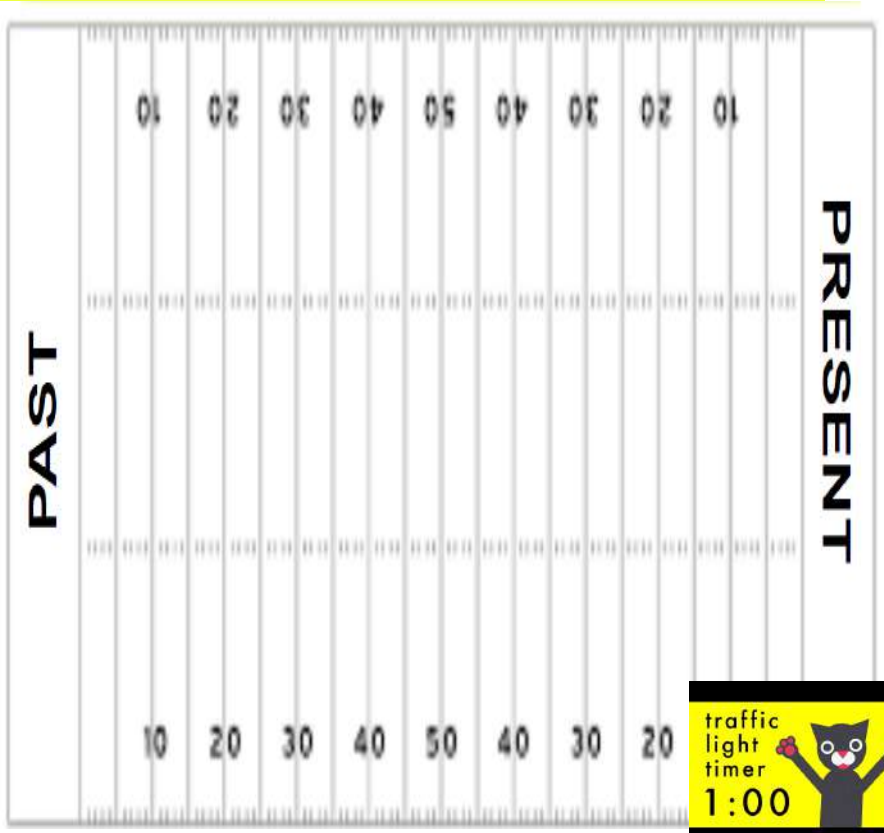
Unit 5 Test Wednesday!

Draw a football field on your whiteboard. Label one end zone "PAST" and the other "PRESENT". This will represent the entire history of the Earth.



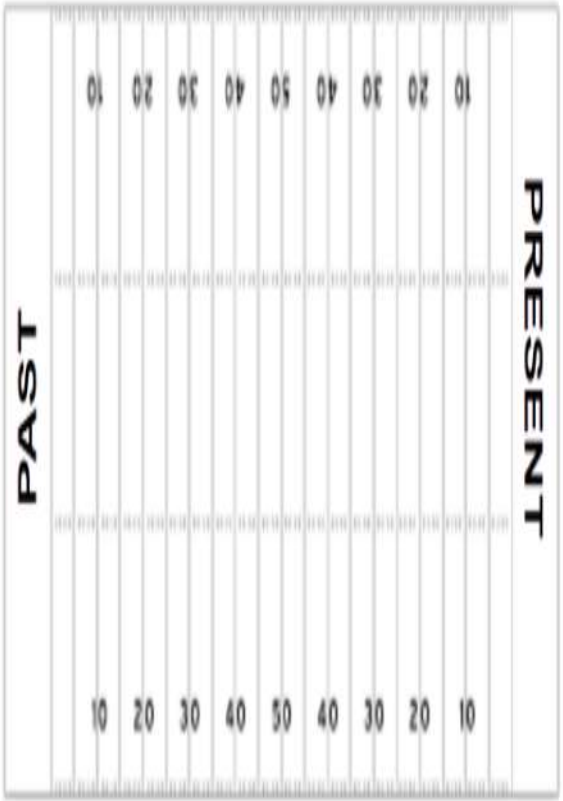
Predict where these Earth events would take place on the field. Write the letters in.

Letter	Event
A	First life on Earth
B	First Multicellular Organism
C	Start of Photosynthesis
D	First Dinosaur
E	First Human



As we watch this film, see how accurate your predictions were.

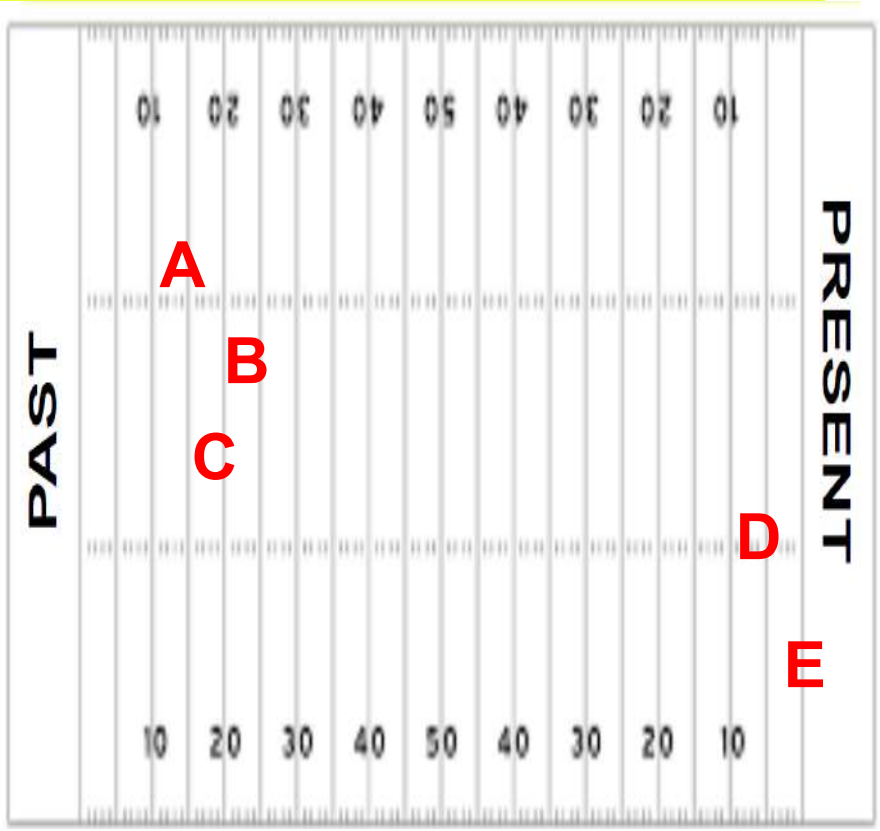
Letter	Event
A	First life on Earth
B	First Multicellular Organism
C	Start of Photosynthesis
D	First Dinosaur
E	First Human




EARTH'S HISTORY
PAST
PRESENT

Earth's History on a Football Field Predictions reviewed

Letter	Event
A	First life on Earth
B	First Multicellular Organism
C	Start of Photosynthesis
D	First Dinosaur
E	First Human



This period: Complete pages 9 & 10 of the Guided Notes using the chart on pages 12 & 13.

Geologic History Scavenger Hunt

The Earth has been around for 4.5 billion years. Use the chart on the last pages to answer the questions below, and hopefully learn a bit about what has happened.

Part 1: A matter of time...Complete this paragraph by filling in the blanks:

The Geologic History chart is divided into different time intervals. The largest time interval is the _____, which include the Phanerozoic and the Precambrian. This largest time interval is then further divided into eras, namely the _____, the _____, and the _____. Each era is then divided into _____, which are again divided into _____.

Which time interval is older? Circle the one that is older and then write approximately when the older one began.

Which is older? (Circle it)	When did the older one begin? (MYA)
Devonian period or Ordovician Period	
Triassic or Jurassic Period	
Mesozoic Era or the Silurian Period	
Early Proterozoic Eon or Devonian Period	

Part 2: Life happens...for each of the events listed, tell which time period it occurred in and age (mya).

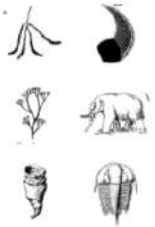
Event	Time period	Age (mya)
Earliest flowering plants		
Mass extinction of dinosaurs		
The first fish		
The first mammal		
The first human		

List one major event pertaining to life on Earth that occurred during each of the following epochs.

Epoch	Event
Pleistocene	
Late Mississippian	
Late Cambrian	
The first mammal	
Early Cretaceous	

9

Part 3: Indexing. . List the names of the following index fossils in order from oldest to youngest.



Oldest

Youngest

List the age of the following index fossils in millions of years (mya) and the group of organisms that it belongs to (as listed vertically on the black lines).

Age:
Type:

Age:
Type:

Age:
Type:

Age:
Type:

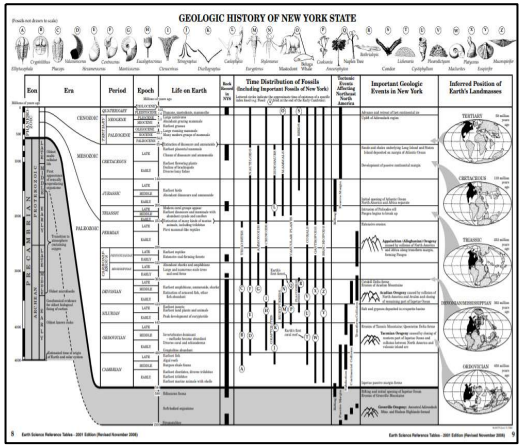
Part 4: Something else. What are three things that you can learn from this chart? Be specific and do not repeat information from the previous parts.

1.

2.

3.

10



Ask for help if you need it.

Show me completed work.

Stuff you can be working on now…that is making up your grade

Unit 5 Quiz 2: Absolute Dating

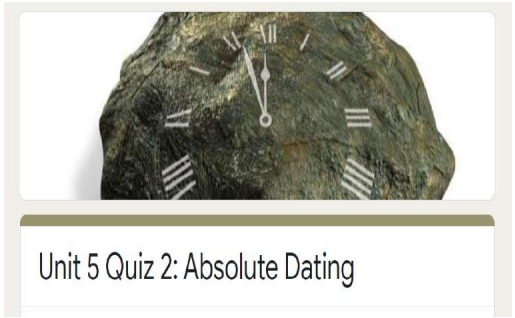
Unit 5 Quiz 1: Relative Dating

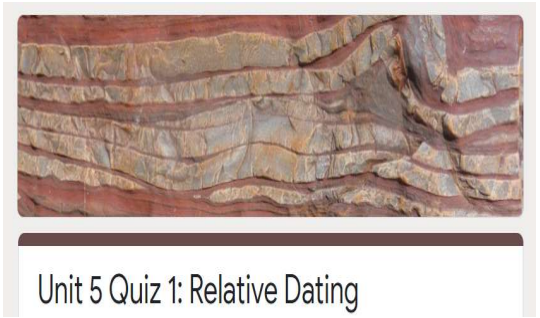
Out of the Ashes Video Quiz

Unit 4 Quiz: Weathering & Friends

Weathering Scavenger Hunt

Access on Google Classroom





Do Now!

Get a **Bingo Card** from the Google Classroom

At your table create a sentence using two or more of the Bingo words.

Your sentence should show that you know the meanings of the words you have used.

Be prepared to share out!

Mr. Sullivan's Examples

Crosscutting states that intrusions and faults are younger than the rock that they cut through.

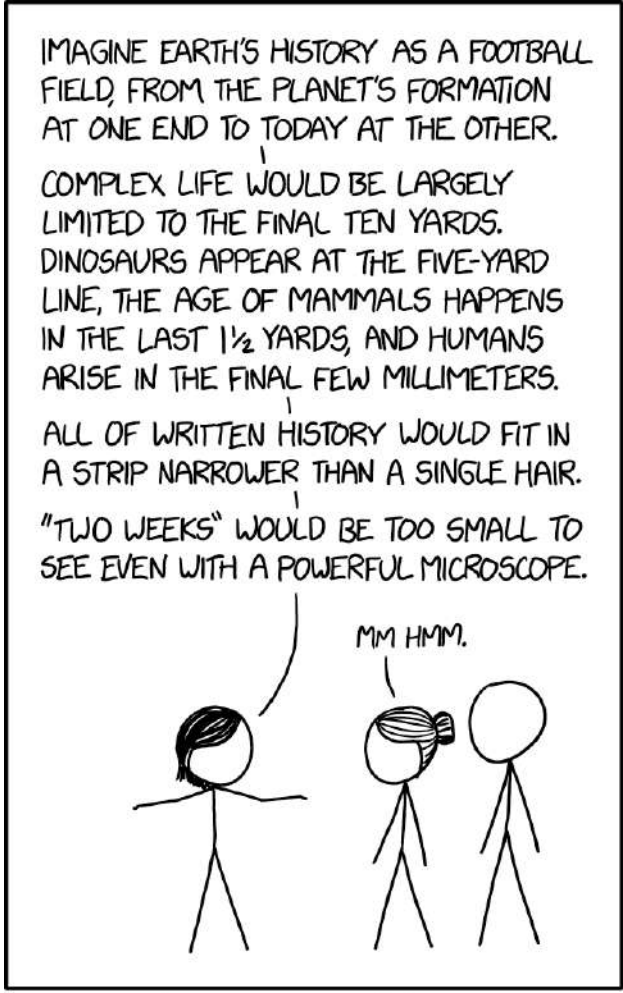
Absolute Dating uses the half life of radioactive material to determine the age of a rock sample.

Agenda for 3/1

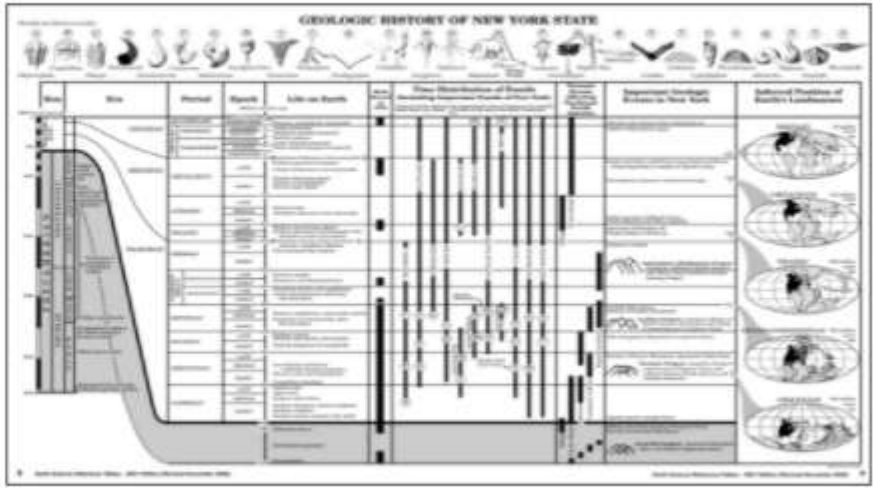
1. Do Now:
2. Daily Spelling Bee
3. Unit 5 Earth's History Bingo
4. How to answer Geologic History Questions
5. Geologic History Blooket

Unit 5 Test Tomorrow!

Study!

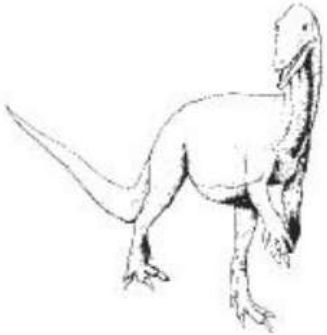


Let’s look at some example Geologic History Problems to see how we can use the chart to answer these correctly.



Which of these fossils is the oldest?

Elliptocephala
(1)



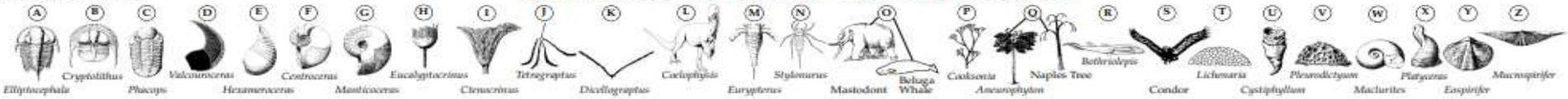
Coelophysis
(2)

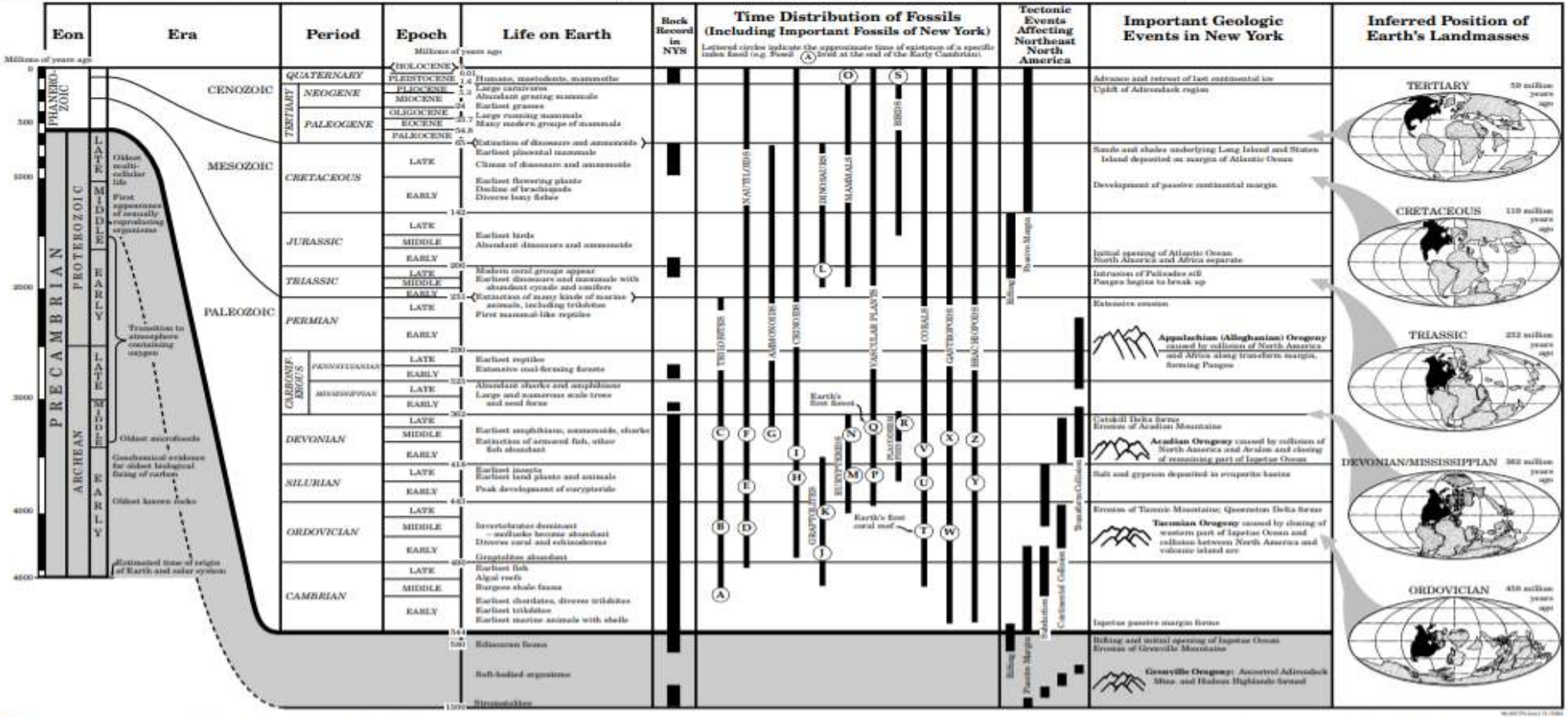
Bothriolepis
(3)

Maclurites
(4)

GEOLOGIC HISTORY OF NEW YORK STATE

(Fossils not drawn to scale)



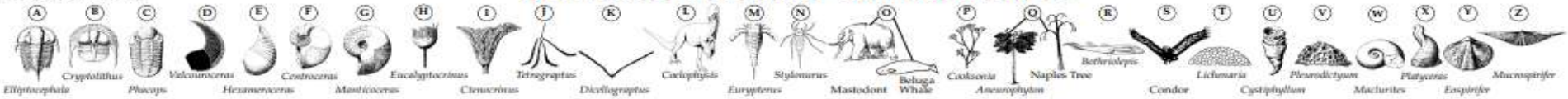


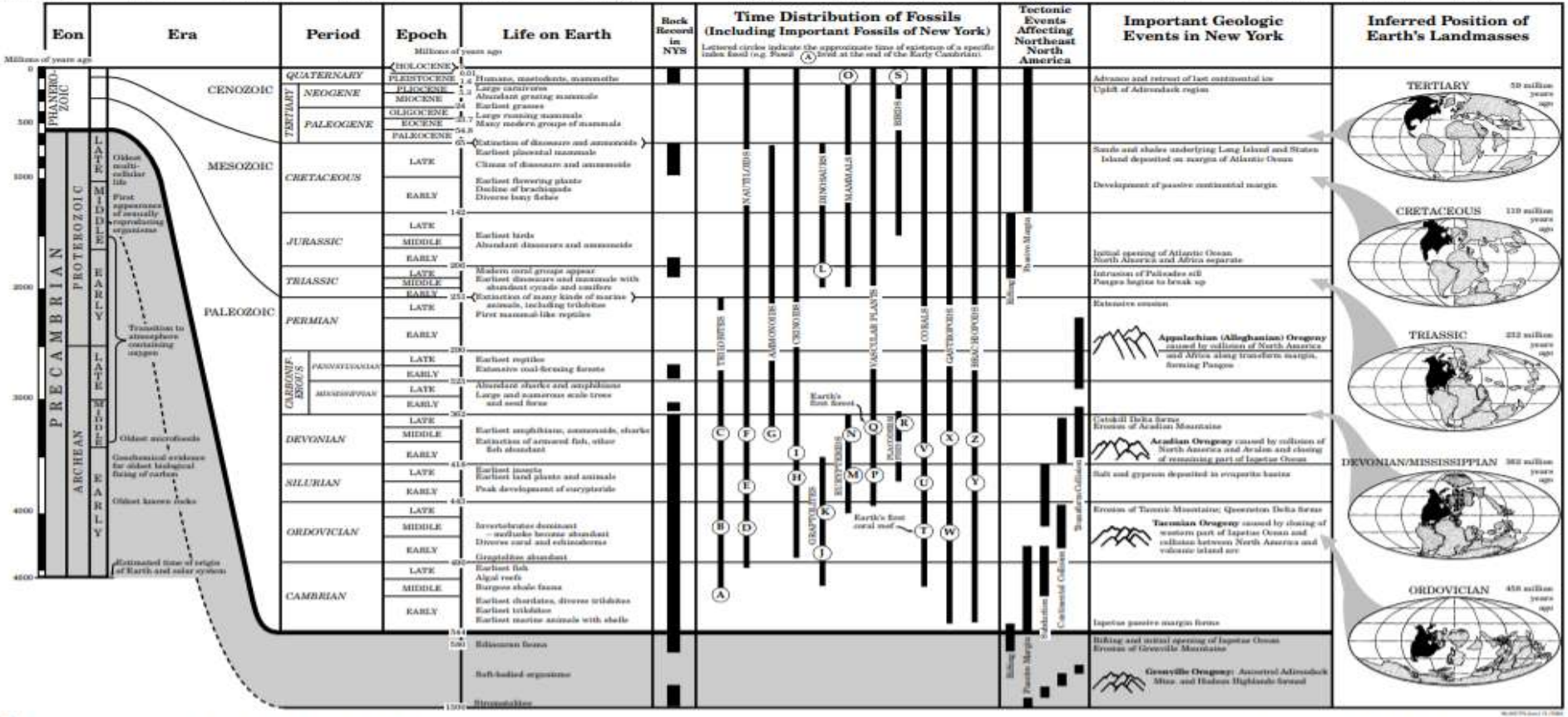
During which geologic time period did the earliest reptiles and great coal-forming forests exist?

(1) Devonian
(2) Quaternary
(3) Mississippian
(4) Pennsylvanian

GEOLOGIC HISTORY OF NEW YORK STATE

(Fossils not drawn to scale)





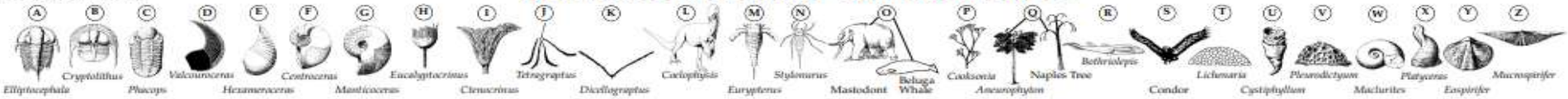
During which geologic time span could this “game” have occurred?

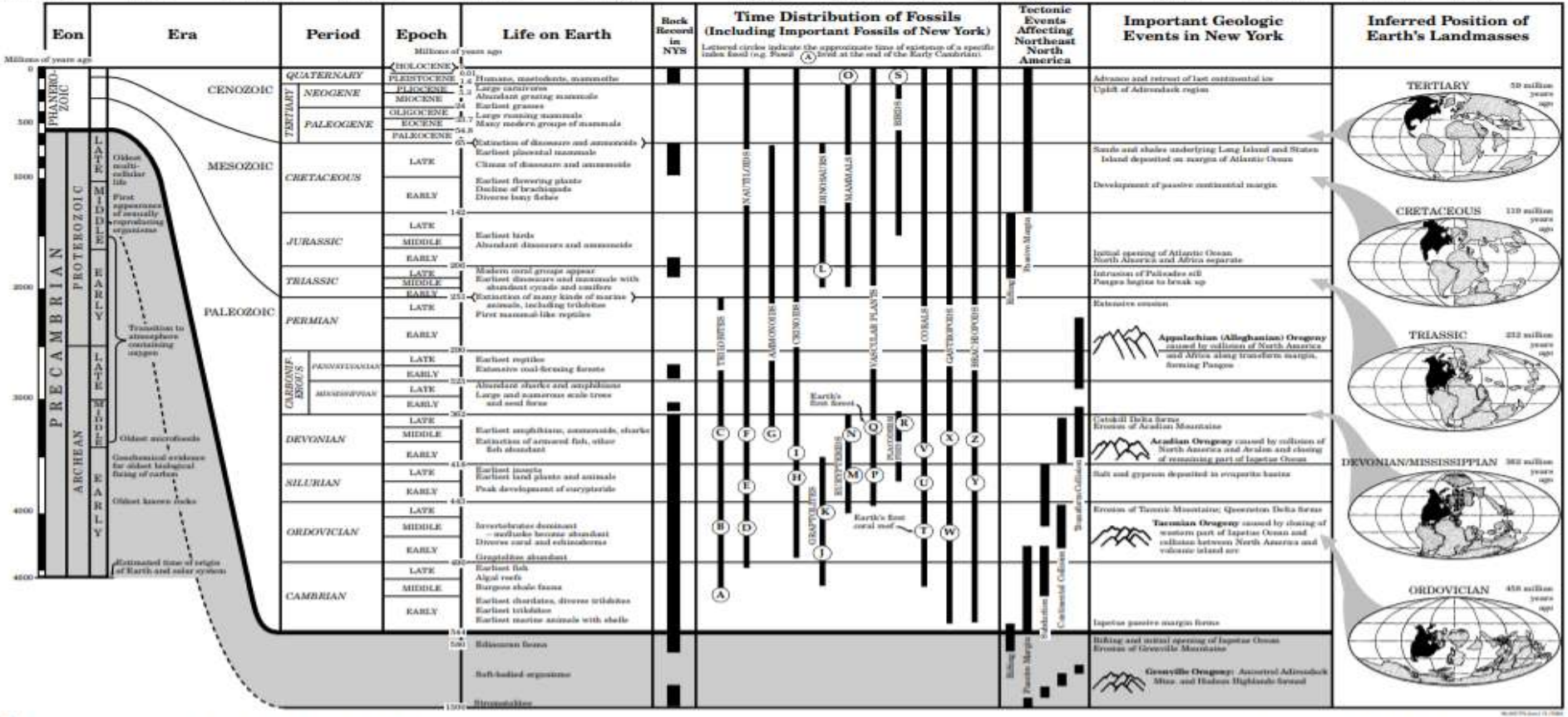
(1) Pleistocene Epoch
(2) Pennsylvanian Epoch
(3) Precambrian Era
(4) Paleozoic Era

The primitive game of "Pull the mammoth's tail and run"

GEOLOGIC HISTORY OF NEW YORK STATE

(Fossils not drawn to scale)





Which fossil would most likely be found in the same siltstone layer as the Cryptolithus fossil?

(1)

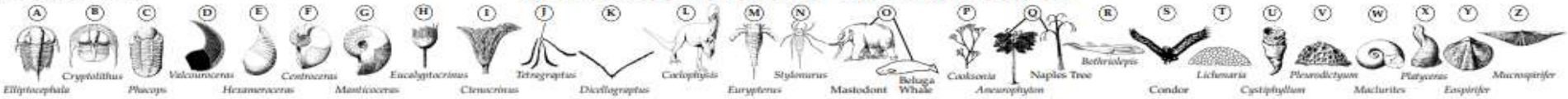
(3)

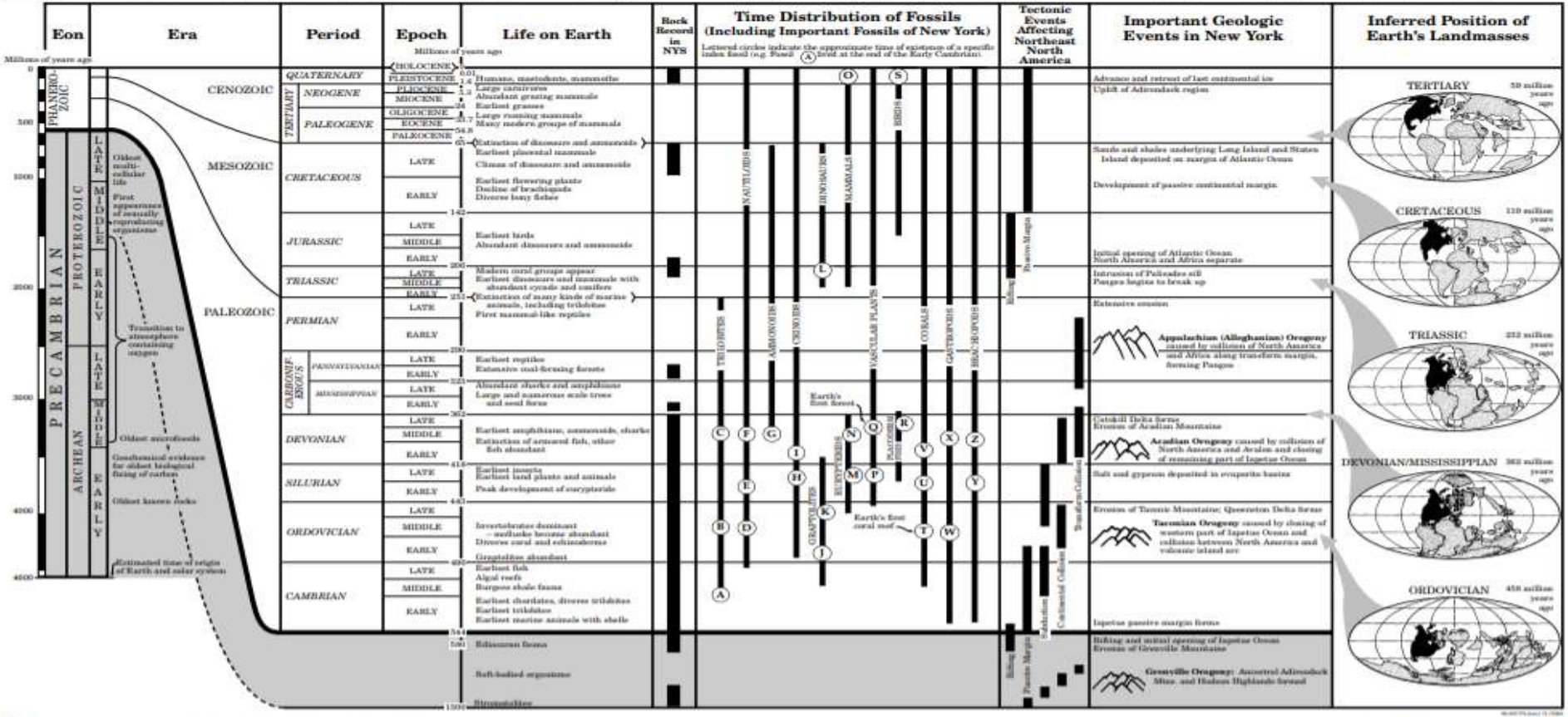
(2)

(4)

GEOLOGIC HISTORY OF NEW YORK STATE

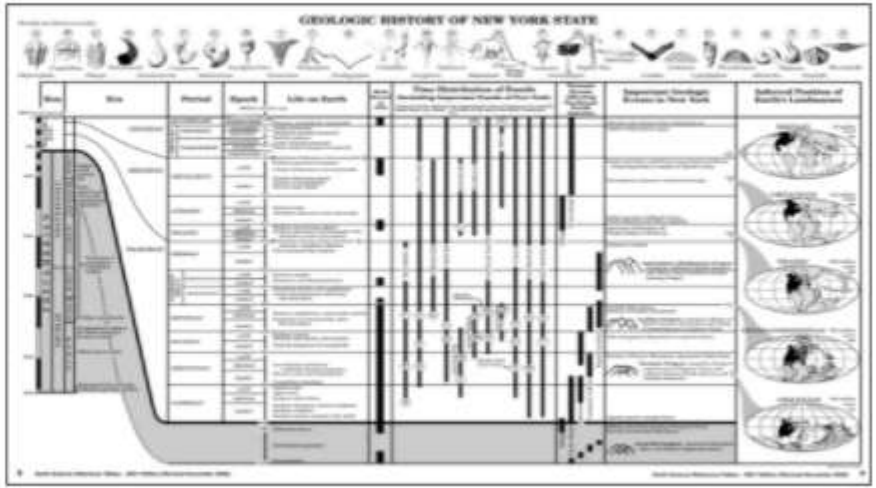
(Fossils not drawn to scale)

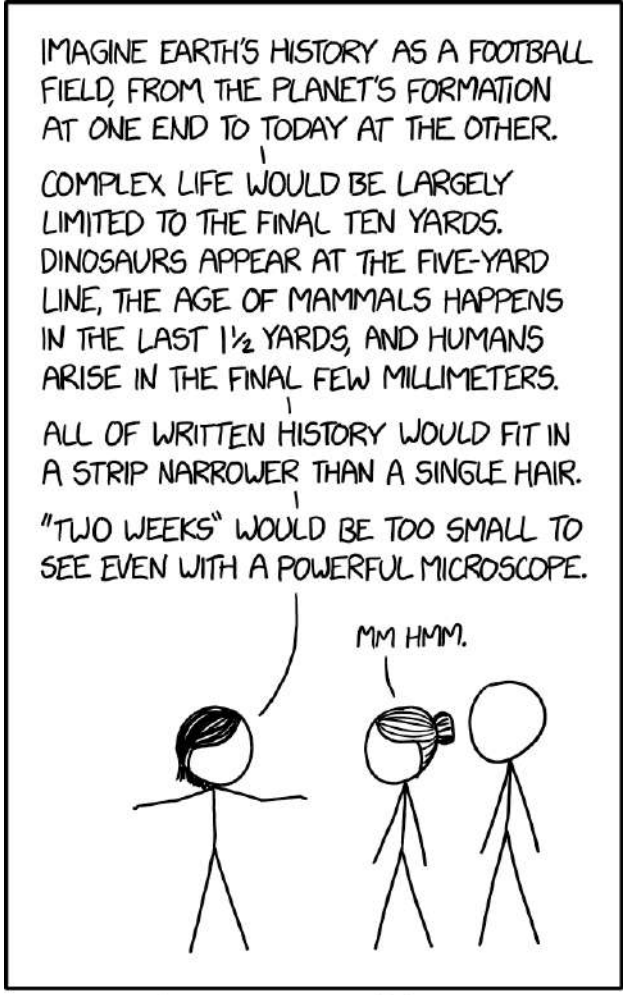




Let's play!


Use this chart!


GEOLOGIC HISTORY OF NEW YORK STATE


IMAGINE EARTH'S HISTORY AS A FOOTBALL FIELD, FROM THE PLANET'S FORMATION AT ONE END TO TODAY AT THE OTHER.
COMPLEX LIFE WOULD BE LARGELY LIMITED TO THE FINAL TEN YARDS. DINOSAURS APPEAR AT THE FIVE-YARD LINE, THE AGE OF MAMMALS HAPPENS IN THE LAST 1½ YARDS, AND HUMANS ARISE IN THE FINAL FEW MILLIMETERS.
ALL OF WRITTEN HISTORY WOULD FIT IN A STRIP NARROWER THAN A SINGLE HAIR.
"TWO WEEKS" WOULD BE TOO SMALL TO SEE EVEN WITH A POWERFUL MICROSCOPE.
MM HMM.
GEOLOGISTS ALWAYS TRY THIS WHEN THEY'RE LATE TURNING SOMETHING IN.

Stuff you can be working on now…

Unit 5 Quiz 2: Absolute Dating

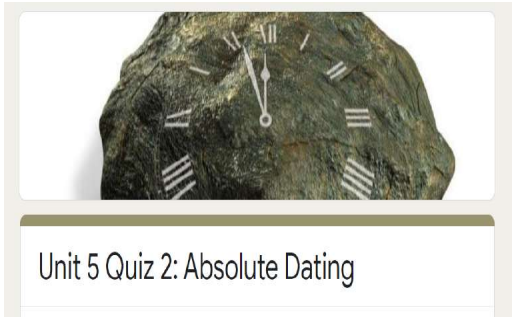
Unit 5 Quiz 1: Relative Dating

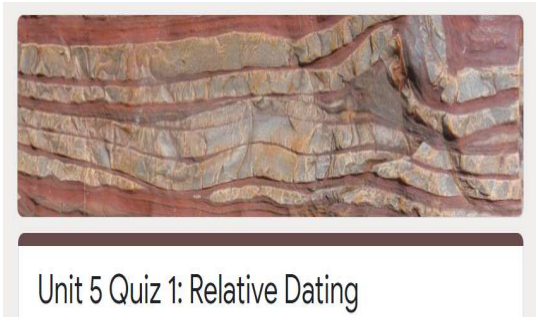
Out of the Ashes Video Quiz

Unit 4 Quiz: Weathering & Friends

Weathering Scavenger Hunt

Access on Google Classroom





Unit 5 Test is tomorrow!

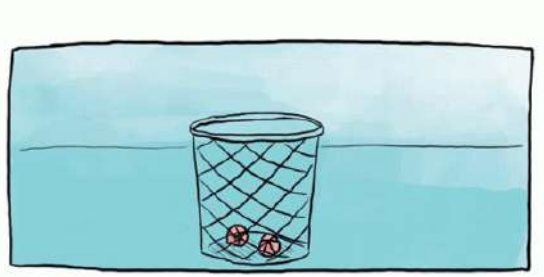
Study!

Clean up! Have a great day!

1. Wipe your table and chair with the wipe.
2. Throw out the wipe when you leave.

Period 6, stack the chairs in the front of the room.

Take trash bag out and put it outside in front of the classroom!



3/2

Unit 5 Test

- 1 student per table. Clear your desks
- All answers on the answer sheet.
- No Talking, No phones, No Leaving
- Reference Chart provided
- Turn in when finished & work on something quietly…not on phone

Tech Challenge Club

- Sign Up today in Room 101 or 103 after 5th period

- Thursdays After School

- Team Engineering Challenge: Convert stored energy to Kinetic Energy and include Sound Energy

- Like Destination Imagination (Student-Built, student-created, student-presented)

- Open to 8th and 9th grade.

Clean up! Have a great day!

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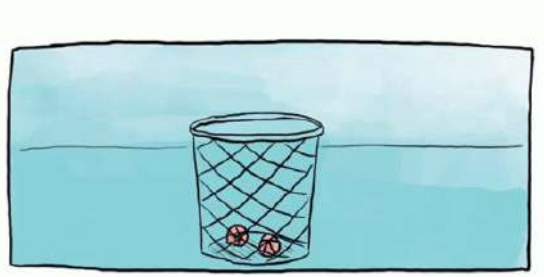
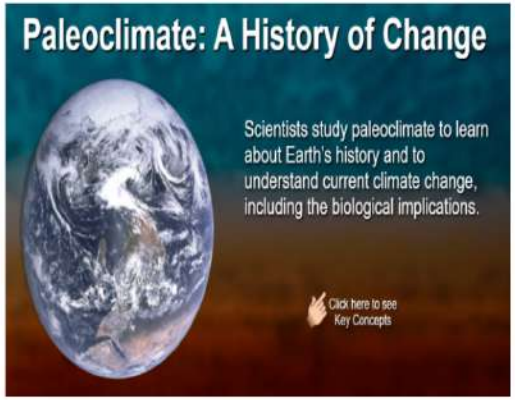


Agenda for 3/3 or 3/4

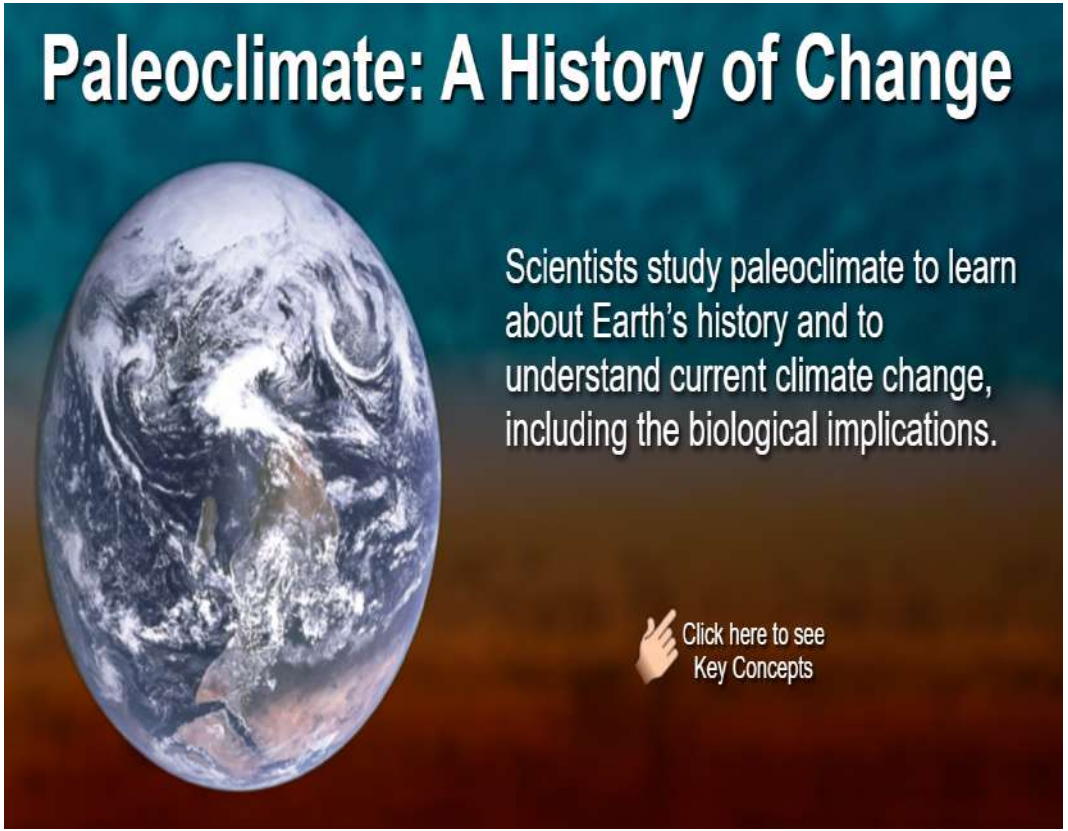
1. Paleoclimate HHMI Activity
2. In-Class Break
3. Science of Climate Change Film and Video Quiz
4. Work on Missing Assignments (If Time Allows)

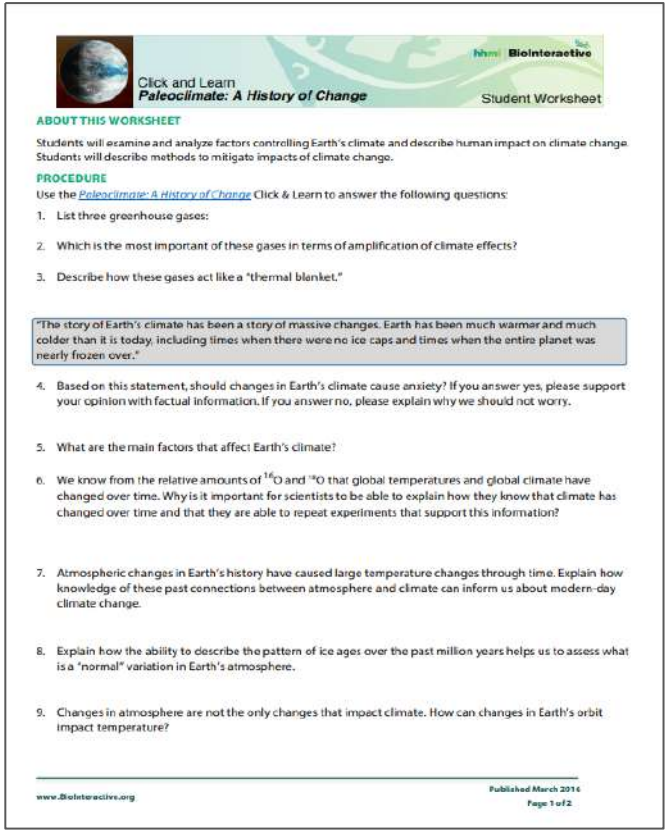
Paleoclimate Activity: Use the Interactive (linked in the Google Classroom) to complete the worksheet.



The Science of Climate Change Video Quiz

Paleoclimate Activity: Use the Interactive (linked in the Google Classroom) to complete the worksheet.





Click and Learn
Paleoclimate: A History of Change
Student Worksheet

ABOUT THIS WORKSHEET

Students will examine and analyze factors controlling Earth's climate and describe human impact on climate change. Students will describe methods to mitigate impacts of climate change.

PROCEDURE

Use the *Paleoclimate: A History of Change* Click & Learn to answer the following questions:

1. List three greenhouse gases:
2. Which is the most important of these gases in terms of amplification of climate effects?
3. Describe how these gases act like a "thermal blanket."

> "The story of Earth's climate has been a story of massive changes. Earth has been much warmer and much colder than it is today, including times when there were no ice caps and times when the entire planet was nearly frozen over."

4. Based on this statement, should changes in Earth's climate cause anxiety? If you answer yes, please support your opinion with factual information. If you answer no, please explain why we should not worry.
5. What are the main factors that affect Earth's climate?
6. We know from the relative amounts of ^{16}O and ^{18}O that global temperatures and global climate have changed over time. Why is it important for scientists to be able to explain how they know that climate has changed over time and that they are able to repeat experiments that support this information?
7. Atmospheric changes in Earth's history have caused large temperature changes through time. Explain how knowledge of these past connections between atmosphere and climate can inform us about modern-day climate change.
8. Explain how the ability to describe the pattern of ice ages over the past million years helps us to assess what is a "normal" variation in Earth's atmosphere.
9. Changes in atmosphere are not the only changes that impact climate. How can changes in Earth's orbit impact temperature?

Remain seated and keep the volume down

Go to Google Classroom and Open the Video quiz. Preview the questions…the film will start shortly.

The Science of Climate Change Video Quiz


THE SCIENCE OF
CLIMATE CHANGE

Complete the Video Quiz (Google Classroom)

The Science of Climate Change Video Quiz

Stuff you can be working on now…that is making up your grade

Science of Climate Change Video Quiz

Unit 5 Quiz 2: Absolute Dating

Unit 5 Quiz 1: Relative Dating

Out of the Ashes Video Quiz

Unit 4 Quiz: Weathering & Friends

Weathering Scavenger Hunt

Access on Google Classroom

Unit 5 Quiz 2: Absolute Dating

Unit 5 Quiz 1: Relative Dating

Unit 4 Quiz 1: Weathering & Friends

Out of the Ashes: Dawn of Mammals Video Quiz

The Science of Climate Change Video Quiz

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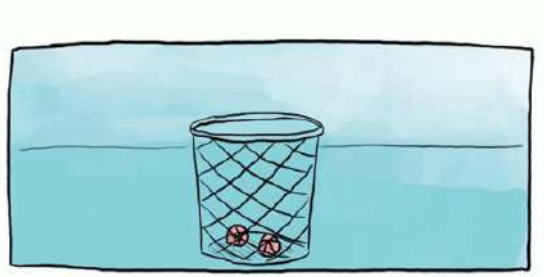


Agenda for 3/7

1. Review Unit Test Retake Procedure.
2. Work on Missing assignments

*I am going to replay the video from last week for those who missed it…or didn't complete the quiz.

Semester 1 of the Spring is ending soon!

Unit Test Reassessment Procedure

If you wish to reassess a Unit Test, here is the procedure:

1. Make sure that you have completed the reassessment requirements, namely:
    a. You have completed any graded assignments for the Unit with passing scores.
    b. You have completed the unit's guided notes.
    c. You have completed at least 45 minutes of additional studying. Document it on the Retake form (Give me editing access to the form)

2. Send me an email with your retake form attached and schedule a time (zero period, lunch or homeroom) to take the retake.

Stuff you can be working on now…that is making up your grade

Science of Climate Change Video Quizz

Unit 5 Quiz 2: Absolute Dating

Unit 5 Quiz 1: Relative Dating

Out of the Ashes Video Quiz

Unit 4 Quiz: Weathering & Friends

Weathering Scavenger Hunt

Access on Google Classroom

Test Makeup Procedure (Under Classwork tab in Google Classroom…scroll to the bottom.)

Class Resources

Unit Test Reassessment Procedure

Posted Jan 26

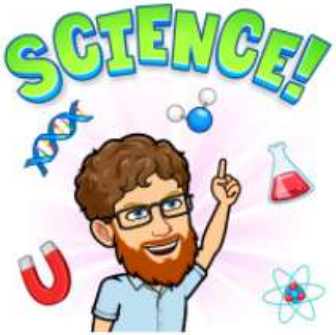
If you wish to retake a test, here is the procedure for that.

Unit Test Reassessment ...

Google Docs

View material

Unit Test Reassessment Procedure



If you wish to reassess a Unit Test, here is the procedure:

1. Make sure that you have completed the reassessment requirements, namely:
    a. You have completed any graded assignments for the Unit with passing scores.
    b. You have completed the unit's guided notes.
    c. You have completed at least 45 minutes of additional studying. Document it on the Retake form (Give me editing access to the form)

2. Send me an email with your retake form attached and schedule a time (zero period, lunch or homeroom) to take the retake.

Name _____ Period ___ Test to Retake _____

Reassessment Requirements: Answer the questions “Yes” or “No”. When you’ve answered all questions with a “Yes” email your teacher with this form attached and schedule a time to retake the test. Please include the date and time (Before School, lunch, or homeroom) when you wish to take the test.

Requirement	Yes or No
1. I have completed any graded assignment from this unit with a passing score.	
2. I have completed my guided notes from this Unit and will show them to my teacher before I take the retake.	
3. I have completed an additional 45 minutes of studying for this test and have documented it in the table below.	

Additional Studying Record	
Time Spent (minutes)	What I did (Reviewed specific concepts, redid Kahoot Reviews, Redid Review Games, etc)

Stuff you can be working on now…that is making up your grade

Science of Climate Change Video Quiz

Unit 5 Quiz 2: Absolute Dating

Unit 5 Quiz 1: Relative Dating

Out of the Ashes Video Quiz

Unit 4 Quiz: Weathering & Friends

Weathering Scavenger Hunt

Access on Google Classroom

Unit 5 Quiz 2: Absolute Dating

Unit 5 Quiz 1: Relative Dating

Unit 4 Quiz 1: Weathering & Friends

Out of the Ashes: Dawn of Mammals Video Quiz

The Science of Climate Change Video Quiz


THE SCIENCE OF
CLIMATE CHANGE