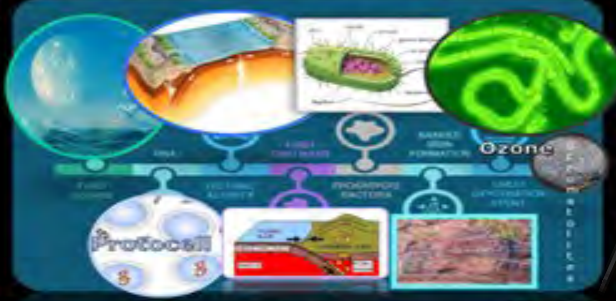


Earth System History Unit

• REVIEW! Major Events of the Archean



• Stromatolites: A calcareous mound built up of layers of lime-secreting cyanobacteria and trapped sediment, found in Archean rocks as the earliest known fossils.



• Earth system history has physical, chemical, and biological components.



• Which time period is the oldest, middle, and youngest based on the Principle of Superposition?



Final Question?

What is the name of the organism seen below that dominated in the early Paleozoic long before life moved to land?

Trilobite

• 99.5% of all things that have ever lived have become extinct.



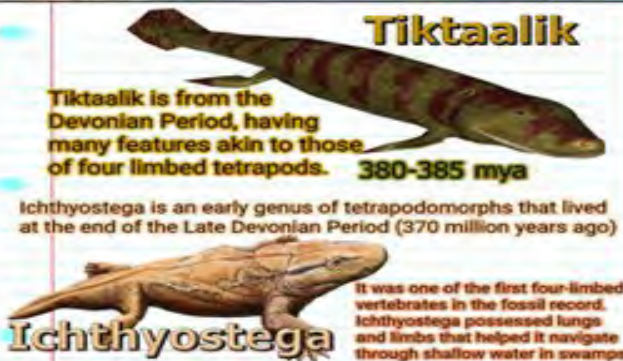
• Which is older, Fish or Snails?



8 Lessons and Project



Interactive Slideshows



- A layer of Iridium can be found across the globe in rock layers around 65 million years ago. K-T Mass Extinction Event
- Iridium is found



- Ediacara fauna: Soft-bodied organism thrive in the oceans.



Period	Epoch	Sub-epoch	Characteristics of the Epoch
Paleozoic	Permian	Carboniferous	Characteristics of the Carboniferous: - Widespread forests - Widespread reptiles - Widespread amphibians - Widespread fish
		Permian	Characteristics of the Permian: - Widespread reptiles - Widespread amphibians - Widespread fish
Mesozoic	Triassic	Triassic	Characteristics of the Triassic: - Widespread reptiles - Widespread amphibians - Widespread fish
		Triassic	Characteristics of the Triassic: - Widespread reptiles - Widespread amphibians - Widespread fish
Cenozoic	Quaternary	Quaternary	Characteristics of the Quaternary: - Widespread mammals - Widespread birds - Widespread fish
		Quaternary	Characteristics of the Quaternary: - Widespread mammals - Widespread birds - Widespread fish

Describe all of the units of time that the Cambrian is part of?

Answer: Cambrian Period, Paleozoic Era, Phanerozoic Eon

- Principle of superposition. The rock layers on the bottom are older.
- More primitive creatures are seen in the older rock layers.



Project, Assessments, Games And more all built-in

• Video Link! Animation of Paleozoic Sea Life at Field Museum in Chicago. (Cambrian)
– <http://www.youtube.com/watch?v=LbhGWDjOkP0>

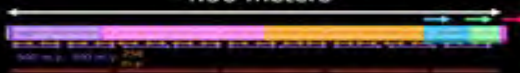


• Meteorites bombard the planet.
– The earth **increases** in size.



Hadean Eon Archean Eon Proterozoic Eon
Paleozoic Era Mesozoic Era Cenozoic Era

4.56 meters



1 b.y. 2 b.y. 3 b.y. 4 b.y. 5 b.y.

Can you color code the edges as a group before we begin.



• Earth's Timeline is divided into various units of time.
– Eon (Longest amount of time)
– Hadean, Archean, Proterozoic



Lasted 2 Billion Years

Phanerozoic eon

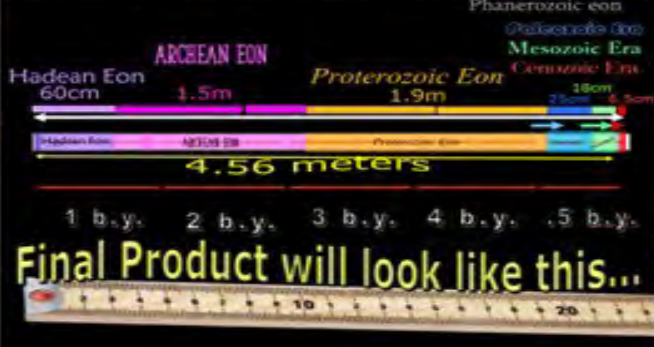
ARCHEAN EON

Hadean Eon 60cm 1.5m Proterozoic Eon 1.9m 25cm 10cm

4.56 meters

1 b.y. 2 b.y. 3 b.y. 4 b.y. 5 b.y.

Final Product will look like this...



-

-

Can you color **code the edges** as a group **before we begin.**

-

Lasted 2 Billion Years

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[illegible]

1 b.y. 2 b.y. 3 b.y. 4 b.y. 5 b.y.

Final Product will look like this...

Part 6: Earth System History: 8 Lessons of 50 Minutes and 8 Page Follow Along Work Bundle, Earth Broken down into a 12 Hour Day and emergence of Humans, Age of the Earth, Uniformitarianism, Review of the Five Fingers of Evolution, Principle of Superposition, Card Activity with the Principle of Superposition, Earth System History, Units of Time, Understanding the Units of Time, Fragility of the System, Mass Extinction Events, Build a timeline project where students work in groups and create a 4.65 meter long timeline of Earth System History, Protoplanet, Precambrian Supereon, Hadean Eon, Crust Formation, Formation of the Moon, Importance of the Moon Formation, Earth's EM Field, Major Events of the Hadean, Events of the Archean, First Prokaryotic Cells, Tectonic Activity, Stromatolites, Proterozoic Eon, Cyanobacteria, Oxygen Catastrophe, Banded Iron Formations, Snowball Earth, Multi-cellular Life, Major Events of the Proterozoic Eon, Paleozoic Era, Major Events of the Cambrian, Ediacaran fauna, Burgess Shale, Make Burgess Shale Activity, Ordovician, Tetrapod Evolution, Tiktaalik, Ichthyostega, Silurian, Devonian, Carboniferous, Fossil Fuels, and Permian Periods, End Permian Mass Extinction, Major Events of the Mesozoic Era, Pangea, Bird Hipped and Lizard Hipped Dinosaurs, Dinosaur Challenge Activity, How Modern Birds and Dinosaurs are Similar, K-Pg Mass Extinction Event, Cenozoic Era, Paleogene, and Neogene Periods, Epochs and Ages, Presentation of Student Timelines, Box Game Review, Crossword Puzzle, End Unit Assessment where Students Use their Timeline, Answers to Assessment so Students Can Self Assess.

Part 6: Earth System History



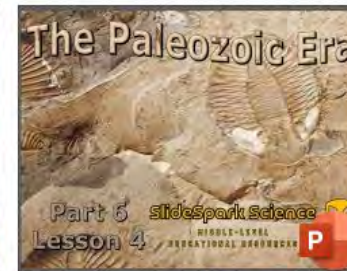
Part 6 Lesson 1 Age of the Earth



Part 6 Lesson 2 Units of Time



Part 6 Lesson 3 Precambrian Super Eon



Part 6 Lesson 4 Paleozoic



Part 6 Lesson 5 Mesozoic



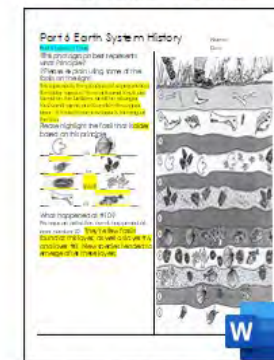
Part 6 Lesson 6 Cenozoic



Part 6 Lesson 7 Review Game



Part 6 Lesson 8 Review Game Answers



Part 6 Work Bundle Answers



Part 6 Work Bundle Digital

SlideSpark Science



MIDDLE-LEVEL EDUCATIONAL RESOURCES

Interactive slideshows provide the roadmap for an amazing learning experience for students in grades 5-9. A Detailed set of work bundles chronologically follow the digital learning, providing a clear and intuitive roadmap to understanding. As the teacher or student advances through a slideshow, exciting hands-on activities, fantastic visuals, fill-in notes, review opportunities, video links, assessments, and much more are strategically placed throughout. Interactive learning unfolds step by step and supported by the work bundle to reach all types of learners. Everything you need to run to an amazing learning experience is provided in this one-of-a-kind science curriculum.

Each unit in the curriculum is designed to help teachers deliver the best possible learning experience for their students. Our interactive science slideshows are filled with questions and answers, important fill-in notes, hands-on activities, projects, games, built-in quizzes, and end of the unit assessment pieces. Students follow along with a work bundle that documents the entire learning experience for a fantastic review and assessment piece.

- The earth is roughly 4.543 Billion years old.
- Primitive life is believed to have formed 3.85 Billion years ago.

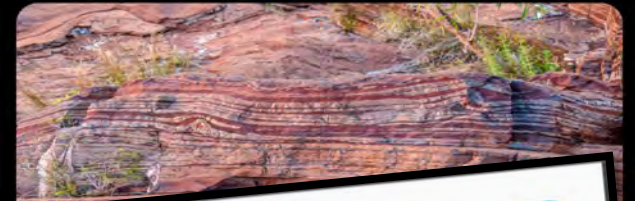


- Which time period is the oldest, middle, and youngest based on the Principle of Superposition?



- **Oldest Banded Iron Formations:** Layers of rock were formed in sea water as the result of oxygen released by photosynthetic cyanobacteria.

– Iron needs oxygen to rust.



- Earth system history has **physical**, **chemical**, and **biological** components.



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Earth System History

Part 3: Lesson 1: First

Name: _____
Date: _____

If the history of the earth from its formation 4.6 billion years ago until present was cut into a 12-hour day... How many hours, minutes, or seconds have humans been around? Draw about around and explain.



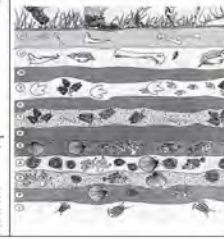
The earth is roughly _____ years old.
Simple life is believed to have formed _____ billion years ago.

Earth System Components
Earth system history has _____, _____, and _____ components.
_____ kinds of nature have not changed over time.

Please highlight the fossil that is older based on this principle.

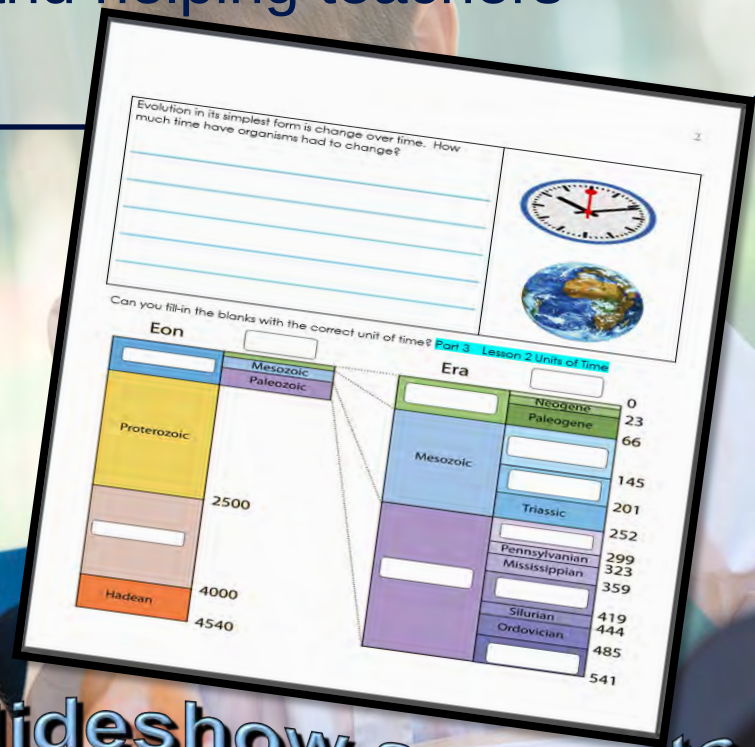
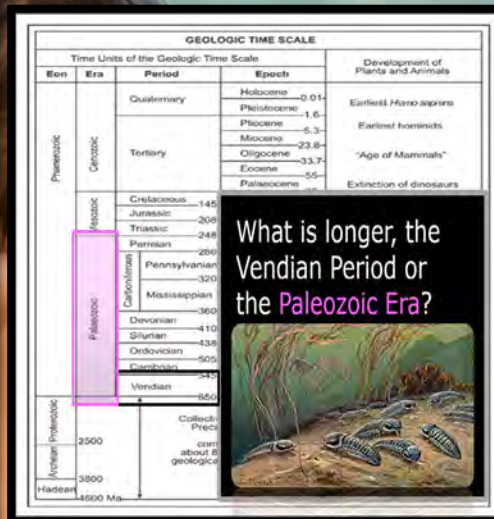
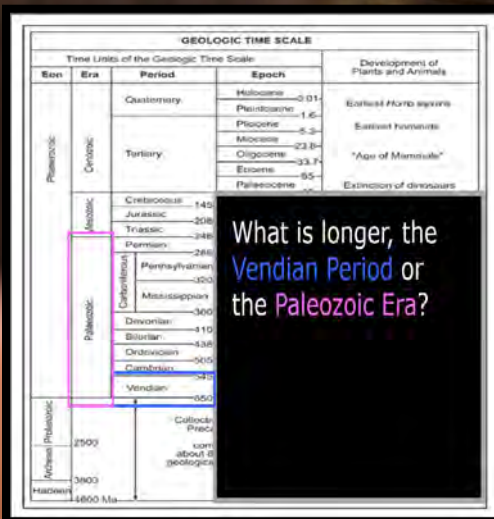


Which rock layer has the oldest fossils?
Which rock layer has the youngest fossils?
What rock layers contain mammals?
When do you find the first vertebrates?
Are ferns older than broadleaf trees?
What happened at #10?



Red Slide Notes: Help students record important information in a fun and easy-to-understand way. Designed red-colored slides contain a few pieces of crucial information that students must record into their work bundle to complete the notes. Students will use these important notes throughout the work bundle.

The set-up of the slideshows are designed to make learning fun and interactive for students. With a mix of questions and answers, teachers can use these slides to get their students thinking and actively participating in their education. Plus, the answers are always revealed on the next slide, providing students with immediate feedback and helping teachers assess their understanding.

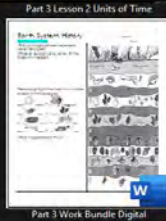
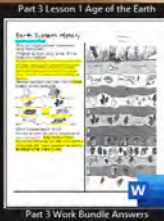


Next Slide

slideshow supports
Work Bundle

Lesson Planning

Daily lessons space exciting hands-on activities, red slide notes, video and academic links, projects, simulations, readings, built-in quizzes, and review opportunities throughout the slideshows. A typical day may have many different learning styles being targeted. Daily lesson planning becomes advancing through the slideshow roadmap the night before. Each lesson is roughly 50 minutes, but sometimes things can speed up or slow down. The best strategy is just to go at your classes own pace. The work bundle chronologically follows the interactive slideshow and you can always spend extra time assessing the quality of the writing within. If you don't quite finish a lesson, you can always pick it up the next day where you left off. The only real trick in timing is not starting a larger activity if you don't have the available time to complete. The slideshows have been designed to be a low stress, go at your classes own pace experience. Most activities are designed to be cost effective, using general materials that can be gathered from your local stores.



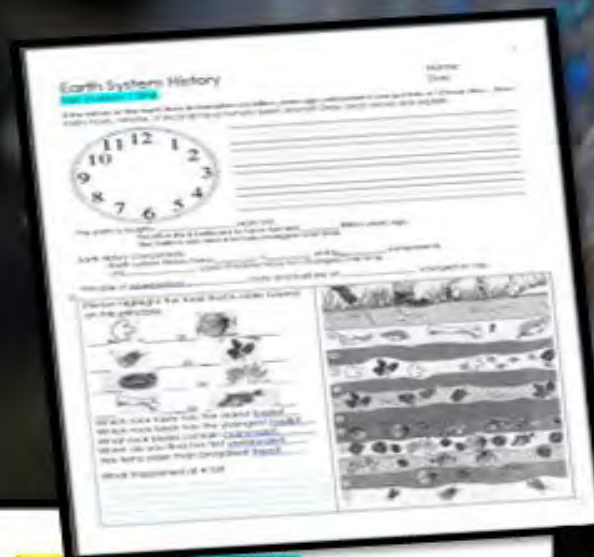
One clear, organized bundle guides students through notes, review, and assessments with ease.

Follow Along Work Bundle

Each science unit comes with several work bundles. The bundles should be printed before the unit begins and distributed to the students on the first day of the unit. The work bundles will be due shortly after the completion of the unit. The work bundle will become a resource for the review games, crossword puzzles, and will be collected for assessment. The work bundle follows the entire learning experience and will be used every day. They are chronological to the lessons and provide places to record fill-in notes, answer questions, collect data, graph and much more. An answer version is provided that can be distributed to your support professionals. A digital version of the work bundle and some writable .pdf versions are provided if you want to go paperless. These work bundles are perfect for students looking for an easy and organized way to track their progress and stay on top of their studies.

Earth System History

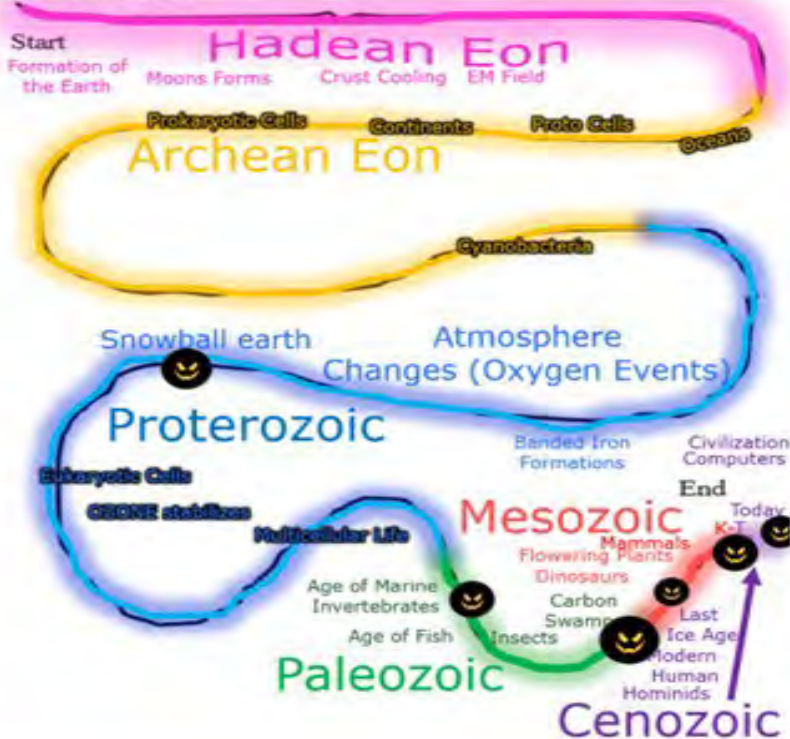
Work Bundle





Please use the line below of the history of the earth from 4.6 billion years ago until present to answer some questions.

5



Name the Eon for the next set of questions.

- When did the moon form?
- When did life first occur?
- When did the EM field occur?
- When did cyanobacteria provide oxygen?
- When did the ozone layer stabilize?
- When did the first eukaryotic cell evolve?
- When did multi-cellular life occur?

Name the Correct Era (Paleozoic, Mesozoic, Cenozoic)

- When did the age of marine invertebrates occur?
- When did mammals evolve?
- When did humans evolve?
- When did dinosaurs go extinct?
- When did insects evolve?
- When did mammals dominate/radiate?

Please record some names / information about each picture. When did it happen or live?



Part 3 EARTH SYSTEM HISTORY

1:20 = 5 pts

*20*25* = Bonus = 1 pt

(Secretly write out in correct space = 1 pt)

Final Question = 5 pt wager

Name:

Score: / 100

IN THE NICK OF TIME	UNITS OF TIME	PICTURES IN TIME	ANYTHING GOES	DINOSAURS Bonus round 1 pt each
1)	4)	11)	14)	*21)
2)	7)	12)	17)	*22)
3)	8)	13)	18)	*23)
4)	9)	14)	19)	*24)
5)	10)	15)	20)	*25)

Final Question Wager: 25 Points

GEOLOGIC TIME SCALE						
Time Units of the Geologic Time Scale					Development of Plants and Animals	
Eon	Era	Period	Epoch			
Phanerozoic	Cenozoic	Quaternary	Holocene 0.01		Earliest Homo sapiens	
			Pleistocene 1.6			
			Pliocene 5.3			
		Tertiary	Miocene 23.8		Earliest hominids	
			Oligocene 33.7			
			Eocene 55			
			Paleocene 65			
			Extinction of dinosaurs and many other species			
		Mesozoic	Cretaceous 145	"Age of Reptiles"		First flowering plants First birds Dinosaurs dominant First mammals
			Jurassic			
Triassic						
Phanerozoic	Paleozoic	Permian	Extinction of trilobites and many other marine animals		First reptiles Large coal swamps Amphibians abundant	
			First amphibians			
			First insect fossils			
		Carboniferous	Fishies dominant		First land plants First forests Trilobites dominant Marine animals with shells Fossiliferous faunas Amphibians	
			First land plants			
			First forests			
			Trilobites dominant			
		Devonian	Marine animals with shells			
			Fossiliferous faunas			
			Amphibians			

8 Pages

Earth System History

What principle best represents what this picture is trying to explain?

The picture is trying to explain the principle of superposition. The older layers of the earth and fossils are found on the bottom, and the younger fossils and layers are found on the top. The fossils of the layers are found in the order of the layers.

Please highlight the fossil that is older based on this principle.



What happened at #101? Perhaps an extinction event happened at layer number 10. The fossils of the layers are found in the order of the layers. The fossils of the layers are found in the order of the layers.

Name: _____
Date: _____



Evolution in its simplest form is change over time. How much time have organisms had to change?

The earth is roughly 4.54 billion years old. Life was first found to have begun 3.7 billion years ago. The amount of time for life to change on planet earth, the species on this planet started off simple and have become increasingly more complex over the long period of time.



Earth History Components

- Earth system history has physical, chemical, and biological components.
- Uniformitarianism: Laws of nature have not changed over time.
- The system is fragile. Changes in living conditions for animals have been numerous throughout earth's history.
- 99.9% of all things that have ever lived have become extinct.

Precambrian

Hadean, Archean, and Proterozoic Eon's

- Earth's **Mother** layers form (Denser to middle).
- Formation of Earth's **Crust** (cooling).
- Meteoroids** bombard the planet and carry with it water molecules and amino acids (building blocks of protein).

Moon **created** from impact event.

Life began in the Hadean Eon.



Paleozoic Eon

Ordovician, Cambrian, Ordovician, Silurian, Devonian, Carboniferous, and Permian Periods.

- Marine invertebrates dominate
- Jawed **Fish** evolve
- Plants invade land (**Oxygen** to atmosphere)
- Insects** emerge
- First **Amphibians**
- First **Reptiles**
- First winged **Insects**

Mesozoic Eon

Triassic, Jurassic, Cretaceous Periods

- Dinosaurs** dominate
- First **Birds**
- First **Mammals**
- First **Flowers**
- C-T Mass Extinction Event, **65mya**

Cenozoic Eon

Tertiary, and Quaternary Periods

- Mammals change
- Earliest **Monkeys**
- Climate becomes drier
- Panama attaches South America to North America
- First **humans** appear

Name the Eon for the next set of questions.

- When did the first life occur? **Hadean Eon**
- When did the first multicellular life occur? **Proterozoic Eon**
- When did the first land plants occur? **Paleozoic Eon**
- When did the first land animals occur? **Paleozoic Eon**
- When did the first mammals occur? **Mesozoic Eon**
- When did the first dinosaurs occur? **Mesozoic Eon**
- When did the first birds occur? **Mesozoic Eon**
- When did the first humans occur? **Cenozoic Eon**
- When did the first modern humans occur? **Cenozoic Eon**

Can you fill in the blanks with the correct unit of time?



Geological time and the geological column

Research one creature that has gone extinct. Draw a quick sketch, its name, and add some relevant information. Please cite your source APA format.

Answers will vary based on selected organisms

Triceratops was a large herbivorous dinosaur with small horns and a large bony frill. It lived in the western United States about 65 million years ago. It is suggested that this frill would have been used for defense. There were believed to have been 10 to 20 horns on the frill. The frill has 200 bony ridges and could reach heights of 20 feet tall. It was a large animal, weighing about 10,000 lbs. and could reach speeds of 25 mph.

Source: "Triceratops" by National Geographic, 2010. Retrieved from National Geographic website: <http://www.nationalgeographic.com/dinosaurs/triceratops/>



Triceratops was a large herbivorous dinosaur with small horns and a large bony frill. It lived in the western United States about 65 million years ago. It is suggested that this frill would have been used for defense. There were believed to have been 10 to 20 horns on the frill. The frill has 200 bony ridges and could reach heights of 20 feet tall. It was a large animal, weighing about 10,000 lbs. and could reach speeds of 25 mph.

Part 6: EARTH SYSTEM HISTORY 6

Name: _____
Score: _____ / 100

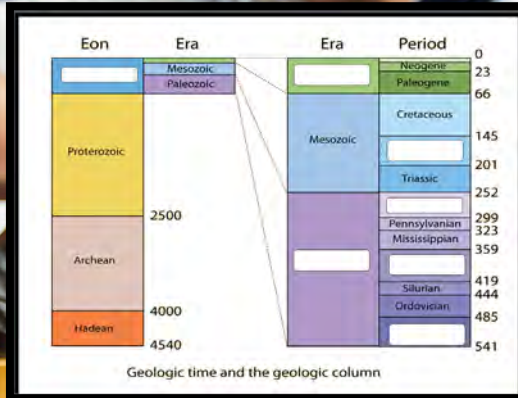
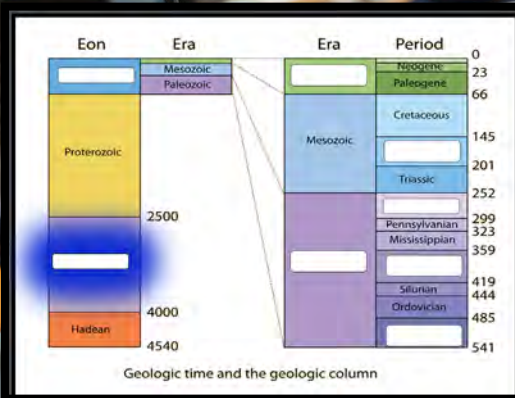
Period	Eon	Period	Eon	Period	Eon
1) Paleozoic	Archean	2) Mesozoic	Proterozoic	3) Cenozoic	Cenozoic
4) Paleozoic	Archean	5) Mesozoic	Proterozoic	6) Cenozoic	Cenozoic
7) Paleozoic	Archean	8) Mesozoic	Proterozoic	9) Cenozoic	Cenozoic
10) Paleozoic	Archean	11) Mesozoic	Proterozoic	12) Cenozoic	Cenozoic
13) Paleozoic	Archean	14) Mesozoic	Proterozoic	15) Cenozoic	Cenozoic
16) Paleozoic	Archean	17) Mesozoic	Proterozoic	18) Cenozoic	Cenozoic
19) Paleozoic	Archean	20) Mesozoic	Proterozoic	21) Cenozoic	Cenozoic
22) Paleozoic	Archean	23) Mesozoic	Proterozoic	24) Cenozoic	Cenozoic
25) Paleozoic	Archean	26) Mesozoic	Proterozoic	27) Cenozoic	Cenozoic
28) Paleozoic	Archean	29) Mesozoic	Proterozoic	30) Cenozoic	Cenozoic

Final Question: What is the geological time scale?

Period	Eon	Period	Eon	Period	Eon
1) Paleozoic	Archean	2) Mesozoic	Proterozoic	3) Cenozoic	Cenozoic
4) Paleozoic	Archean	5) Mesozoic	Proterozoic	6) Cenozoic	Cenozoic
7) Paleozoic	Archean	8) Mesozoic	Proterozoic	9) Cenozoic	Cenozoic
10) Paleozoic	Archean	11) Mesozoic	Proterozoic	12) Cenozoic	Cenozoic
13) Paleozoic	Archean	14) Mesozoic	Proterozoic	15) Cenozoic	Cenozoic
16) Paleozoic	Archean	17) Mesozoic	Proterozoic	18) Cenozoic	Cenozoic
19) Paleozoic	Archean	20) Mesozoic	Proterozoic	21) Cenozoic	Cenozoic
22) Paleozoic	Archean	23) Mesozoic	Proterozoic	24) Cenozoic	Cenozoic
25) Paleozoic	Archean	26) Mesozoic	Proterozoic	27) Cenozoic	Cenozoic
28) Paleozoic	Archean	29) Mesozoic	Proterozoic	30) Cenozoic	Cenozoic
31) Paleozoic	Archean	32) Mesozoic	Proterozoic	33) Cenozoic	Cenozoic
34) Paleozoic	Archean	35) Mesozoic	Proterozoic	36) Cenozoic	Cenozoic
37) Paleozoic	Archean	38) Mesozoic	Proterozoic	39) Cenozoic	Cenozoic
40) Paleozoic	Archean	41) Mesozoic	Proterozoic	42) Cenozoic	Cenozoic
43) Paleozoic	Archean	44) Mesozoic	Proterozoic	45) Cenozoic	Cenozoic
46) Paleozoic	Archean	47) Mesozoic	Proterozoic	48) Cenozoic	Cenozoic
49) Paleozoic	Archean	50) Mesozoic	Proterozoic	51) Cenozoic	Cenozoic
52) Paleozoic	Archean	53) Mesozoic	Proterozoic	54) Cenozoic	Cenozoic
55) Paleozoic	Archean	56) Mesozoic	Proterozoic	57) Cenozoic	Cenozoic
58) Paleozoic	Archean	59) Mesozoic	Proterozoic	60) Cenozoic	Cenozoic
61) Paleozoic	Archean	62) Mesozoic	Proterozoic	63) Cenozoic	Cenozoic
64) Paleozoic	Archean	65) Mesozoic	Proterozoic	66) Cenozoic	Cenozoic
67) Paleozoic	Archean	68) Mesozoic	Proterozoic	69) Cenozoic	Cenozoic
70) Paleozoic	Archean	71) Mesozoic	Proterozoic	72) Cenozoic	Cenozoic
73) Paleozoic	Archean	74) Mesozoic	Proterozoic	75) Cenozoic	Cenozoic
76) Paleozoic	Archean	77) Mesozoic	Proterozoic	78) Cenozoic	Cenozoic
79) Paleozoic	Archean	80) Mesozoic	Proterozoic	81) Cenozoic	Cenozoic
82) Paleozoic	Archean	83) Mesozoic	Proterozoic	84) Cenozoic	Cenozoic
85) Paleozoic	Archean	86) Mesozoic	Proterozoic	87) Cenozoic	Cenozoic
88) Paleozoic	Archean	89) Mesozoic	Proterozoic	90) Cenozoic	Cenozoic
91) Paleozoic	Archean	92) Mesozoic	Proterozoic	93) Cenozoic	Cenozoic
94) Paleozoic	Archean	95) Mesozoic	Proterozoic	96) Cenozoic	Cenozoic
97) Paleozoic	Archean	98) Mesozoic	Proterozoic	99) Cenozoic	Cenozoic
100) Paleozoic	Archean	101) Mesozoic	Proterozoic	102) Cenozoic	Cenozoic

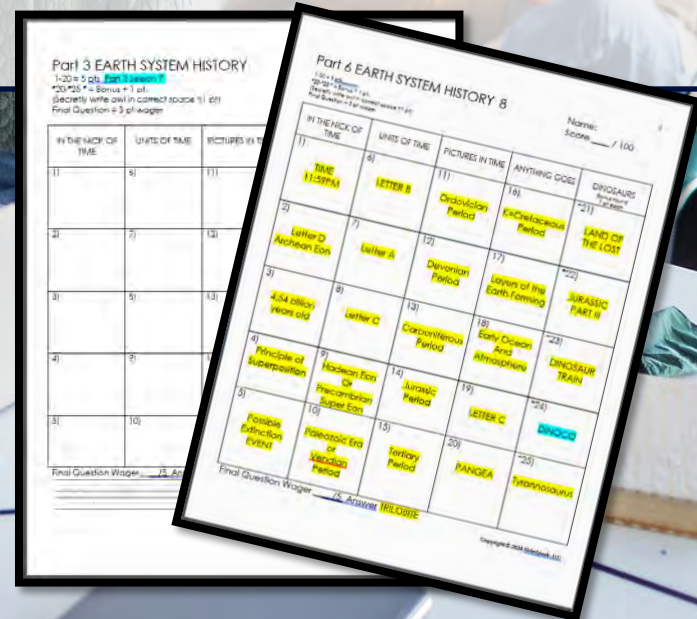
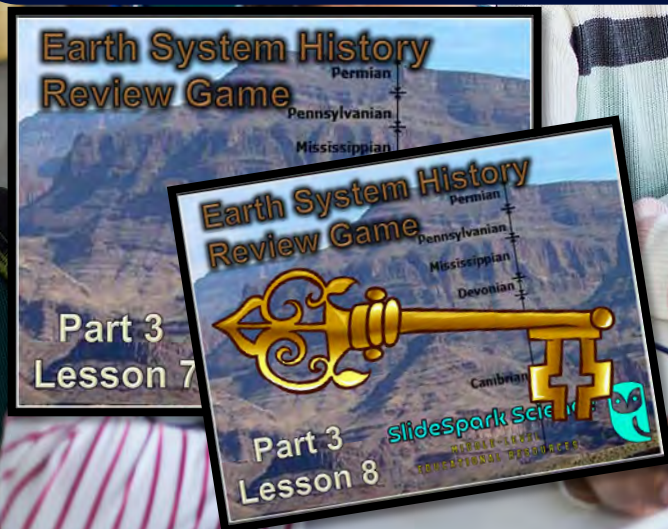
Built-in Questions and Assessments

Many slides will have relevant terms covered with a box. When advancing through the slideshow an outline around the box will glow with a bright color. The next slide will make the box disappear. These slides allow the teacher to call upon students or table groups / check for understanding before advancing. The team at SlideSpark has found that using this technique helps to keep the students focused. Constantly recalling and reviewing information learned is necessary when moving through a large unit. The slideshows don't just give everything away for free. Students should be able to demonstrate knowledge before moving on. Some slides have full questions instead of just covered terms. In these slides, the teacher should encourage small group work. The teacher can then call upon one or two groups to share before advancing the slide. The next slide will always reveal the correct answer.



Review Game / Assessments

Each of the 11 Units concludes with a review quiz. Answers are provided in slideshow form so students can self assess. A blank template sheet is provided in the work bundle. Students can benefit from working together in small table groups with quiet communication. You can decide if you want to allow the use of work bundles or not. These are a nice review opportunity and get the students looking through their work bundles for the answers.



Earth System History Quiz Game

- This describes the layers of Earth that the bottom are usually older and contain fossils. **Principle of Superposition**

4



- The appearance of the earliest forms of basic life is best represented by which picture on the 12 hour Earth calendar. **Answer D: Archean**



2



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- Final Question?

- What is the name of the organism seen below that dominated in the early Paleozoic long before life moved to land?

Trilobite



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- Roughly, How old is the earth?
- 4.54 Billion Years Old

3

How OLD?



- Which unit of Geologic Time best represents the formation of the moon?
- The Precambrian Super -Eon (Hadean Eon Accepted)

9

Causes Axial Tilt in Earth 23.5°



- This picture best represents which Era on the Geologic Time Scale?
- Paleozoic Era (Early Vendian / Cambrian Period)

10



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- What may have occurred at numbers 6, 8, and 10?
- An Extinction Event



5

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- Mass extinction events occurred at the end of these two periods.
- A.) Cambrian and Tertiary Periods
- B.) Mississippian and Pennsylvanian Periods
- C.) Permian and Cretaceous Periods
- D.) Vendian and Silurian Periods
- E.) No mass extinction events have ever occurred.

8



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- Which of the following units of time is the longest?
- A.) Phanerozoic Eon
- B.) Mesozoic Era
- C.) Jurassic Period
- D.) Pliocene Epoch
- E.) Science Class

Geologic Time Scale			
Time Unit	Approximate Age (Millions of Years Ago)	Approximate Age (Billions of Years Ago)	Approximate Age (Trillions of Years Ago)
Phanerozoic Eon	541 - Present	4.54 - Present	4.54 - Present
Proterozoic Eon	2500 - 541	2.5 - 4.54	2.5 - 4.54
Archean Eon	4000 - 2500	4 - 2.5	4 - 2.5
Hadean Eon	4540 - 4000	4.54 - 4	4.54 - 4
Geologic Time Scale	Present - 4540	Present - 4.54	Present - 4.54
Quaternary Period	0.02 - 0.0001	0.02 - 0.0001	0.02 - 0.0001
Pleistocene Epoch	0.024 - 0.0001	0.024 - 0.0001	0.024 - 0.0001
Holocene Epoch	0.0001 - Present	0.0001 - Present	0.0001 - Present
Recent Epoch	0.0001 - Present	0.0001 - Present	0.0001 - Present

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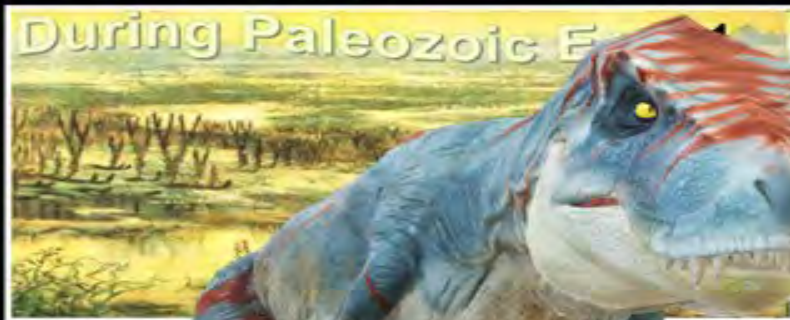
- This picture best represents which Period on the Geologic Time Scale?

– Note: Emergence of Birds Answer: Jurassic Period



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- This picture best represents which Period on the Geologic Time Scale?
- Ordovician Period (First Land Plants)



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- Most of the coal and other forms of fossil fuel are the **carbon** rich remains of plants and animals that lived during this period?
- Carboniferous Period



During Paleozoic Era

- This picture best represents which Period on the Geologic Time Scale?
- Tertiary Period (Quaternary Accepted as well)



During Cenozoic Era

15

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- This picture best represents which Period on the Geologic Time Scale?
- Devonian or Early Carboniferous Period



During Paleozoic Era 12

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- What supercontinent that is shown below began to break apart during the early Jurassic Period?

PANGAEA

20



- What is this an animation of? When did it happen?
- Layers of the Earth Forming (Hadean Eon)

17



- What is the K and the Pg in the K-pg (Also known as the K-T) Mass Extinction Event that wiped out the dinosaurs and allowed the age of the mammals to begin.

K=Cretaceous

Pg-Paleogene or Tertiary

16



- All of the following are similarities between birds and bird-like dinosaurs (Theropods) except...

A.) Three toed foot.

B.) Walk on two legs.

C.) Dense heavy bones.

D.) Wishbone.

E.) Backward pointing pelvis.



19

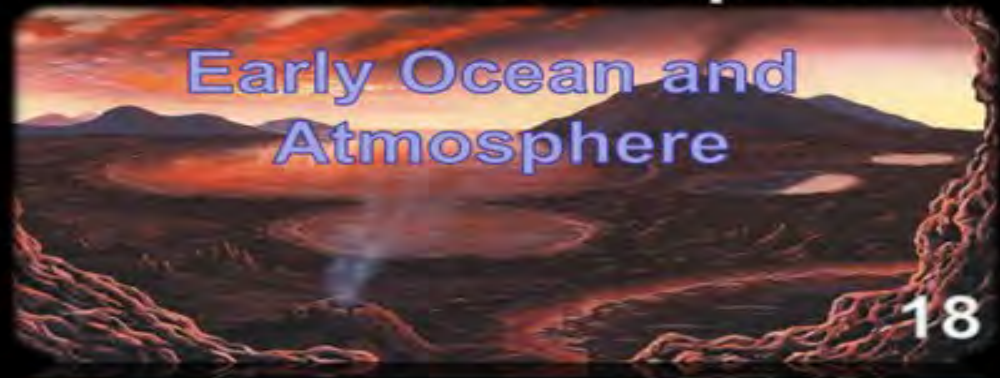


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These were created from
outgassing from
the interior of the planet?

**Early Ocean and
Atmosphere**

18

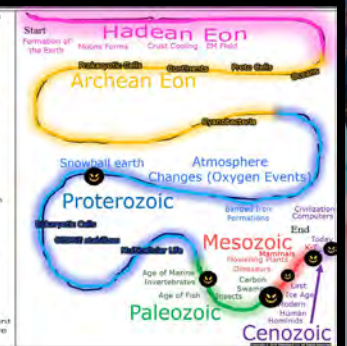
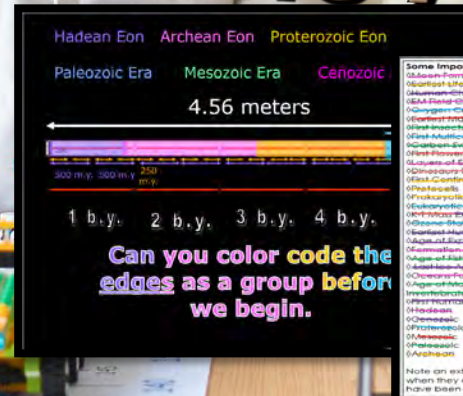
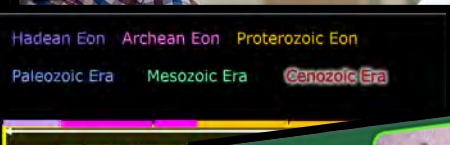
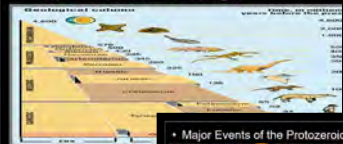


Activities / Labs

Our science activities are designed to help students explore and understand complex scientific concepts in an engaging and interactive way. Each science unit includes several hands-on activities that encourage students to collect data and think critically about the world around them. Our easy-to-follow slideshow provides detailed visuals, simple materials, and clear directions, making it easy for both students and teachers to navigate the activities.

Earth Timeline Activity

- Please draw pictures and include text on your timeline as we cover them in the slideshow.
- Get your timeline ready, pencils, markers etc, sketch as we move down the timeline.
- Your group must work together in a small spa which is 75% of the challenge.



Built-in Assessment

This unit includes built-in assessments completed in the work bundle. With each question revealed, teachers can call on students or groups to respond. To add energy, students stand and make a quick symbol or gesture before the answer is shown—getting them moving while keeping review fun and interactive.

- Activity! Who is king of the dinosaurs in this class.

- Each slide will present two dinosaurs.
- Guess T or F with the correct symbol.
- Who will be able to survive all of the rounds?



- Ornithischia ("bird-hipped")
- Thyreophoria (Which is Stegosaurus?)



- Ornithischia ("bird-hipped")
- Thyreophoria (Which is Stegosaurus?)



- Ornithischia ("bird-hipped")
- Thyreophoria (Which is which?)

• Stegosaurus

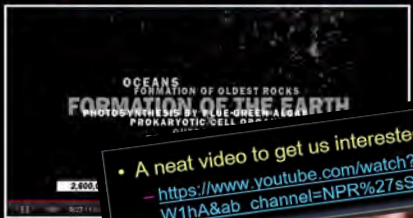
Ankylosaurus



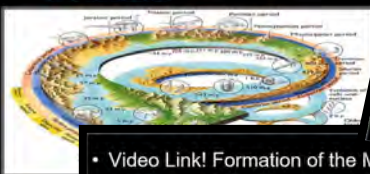
Built-in Video Links

Our science education program is designed with the modern, multimedia learner in mind, and our video / academic links are a perfect complement to our educational materials. These short clips are embedded into the slideshow at just the right places for a fantastic review. Whether you're studying biology, chemistry or physics, our video links are an excellent way to reinforce your learning.

- Video Link! What does this 12 hour comparison sound like in one minute.
– <http://www.youtube.com/watch?v=YXSEytlbIMl>



- Activity: Making a timeline of Earth System History.
– <http://serc.carleton.edu/quantskills/activities/calculatorape.html>



- Video of Geologic Times. Just run this video for the **Precambrian** and add details to your timeline.
– <https://www.youtube.com/watch?v=Wp5ZpJIAE&t=1s>



- Tiktaalik is from the Devonian Period, having many features akin to tetrapods.
– https://www.youtube.com/watch?v=PQBjqA&ab_channel=BBC



- Video of Geologic Times. Just run this video for the **Mesozoic** and add details to your timeline. **Mesozoic** starts 8 minutes in...
– <https://www.youtube.com/watch?v=rWp5ZpJIAE&t=1s>



- A neat video to get us interested.
– https://www.youtube.com/watch?v=MlW1hA&ab_channel=NPR%27sSkunk



- Video Link! Formation of the Moon
– Longer Version
– <http://www.youtube.com/watch?v=m8P5ujNwEwI>



- Video of Geologic Times. Just run this video for the **Paleozoic** and add details to your timeline. Starts 6 minutes in...
– <https://www.youtube.com/watch?v=rWp5ZpJIAE&t=1s>



- Video Link! Animation of Paleozoic Sea Life at Field Museum in Chicago. (Cambrian)
– <http://www.youtube.com/watch?v=LbhGWDIOkP0>



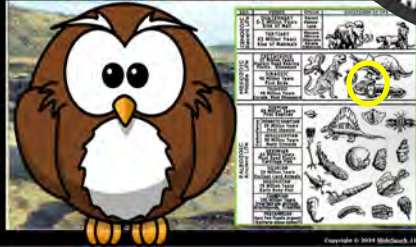
- The fossil record of changes in plants and animals over millions of years.

– From simple to more complicated.



- The fossil record of changes in plants and animals over millions of years.

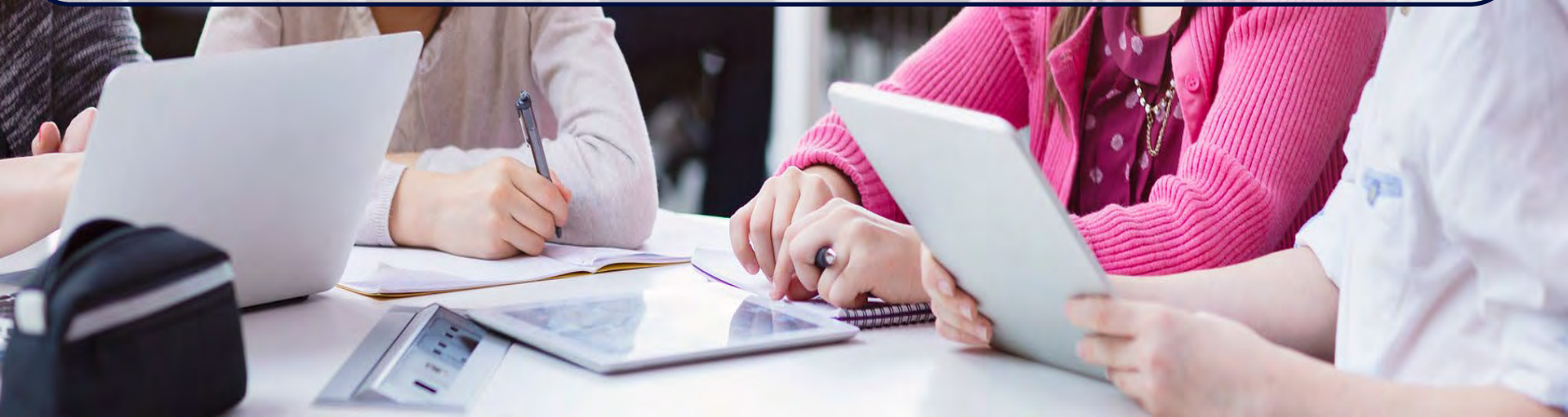
– From simple to more complicated.



The Owl - Each Part of the slideshow has a small clipart Owl hiding somewhere in a slide. The owl is incredibly small and blended into just the right slide. If a student spots the “Owl” they can raise their hand high into the air. When you call upon the student they can say “Owl” and be the student who spotted the Owl. Each PowerPoint Review game also has an owl hiding in it worth one point. Remind the students that they secretly write the word “owl” rather than yell it out during the review games. The Owl search is not included in every lesson. A slide at the beginning of the lesson will alert the students that today is an “Owl” day. Everything arrives editable so delete if you wish. You will find that some students will become the expert owl hunters in the group.

Google Classroom Compatible

Our digital learning programs are designed for students to learn science in a flexible and engaging environment. Our Google Classroom-compatible units provide a seamless learning experience whether your students are in the classroom or learning from home. Our step-by-step slideshows and student work bundles ensure that students can complete their work independently. The PowerPoint Slideshows and step-by-step work bundles can easily be loaded to your Google Drive and posted in your Google Classroom. These are great for daily lessons, students who need additional time, and for a student who was absent and looking to catch up in their work bundle.





[Part 3 Lesson 1 Age of the E...](#)

Google Slides



[Part 3 Lesson 2 Units of Time](#)

Google Slides



[Part 3 Lesson 3 Precambria...](#)

Google Slides



[Part 3 Lesson 4 Paleozoic](#)

Google Slides



[Part 3 Lesson 5 Mesozoic](#)

Google Slides



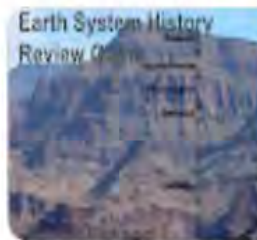
[Part 3 Lesson 5 Mesozoic](#)

Google Slides



[Part 3 Lesson 6 Cenozoic](#)

Google Slides



[Part 3 Lesson 7 Review Game](#)

Google Slides



[Part 3 Work Bundle Digital](#)

Google Docs

GEOLOGY

Mega Bundle

6 Parts, 60 Lessons

Hundreds of Amazing and Interactive Slides

6 Parts, 60 Lessons

Follow Along Bundles

6 Bundles, 100 Pages

Assessments, Activities, Keys, Games and More

6 Bundles, 100 Pages

Geology Topics Unit

Geology Unit

60 Lessons, (6th-8th Medium Difficulty) Part 1 Dynamic Earth, is 11 Lessons and 15 Page Work Bundle, Part 2 Volcanoes is 8 Lessons and 18 Page Work Bundle, Part 3 Earthquakes is 11 Lessons and 16 Page Work Bundle, Part 4 is Minerals 9 Lessons and 15 Page Work Bundle, Part 6 Rocks is 10 Lessons and 14 Page Work Bundle, Part 7 Earth System History is 8 Lessons and 9 Page Work Bundle

Part 1: Geology Unit: Plate Tectonics, Uniformitarianism, Continental Drift, Evidence for Continental Drift, Pangea, Rodinia, Heat and Convection, Energy Waves, Layers of the Earth, The EM Field, Heat Transfer, Types of Crust, Plate Boundaries, Subduction Zones, Converging and Diverging Boundaries, Ring of Fire, Archipelagos, Transform Boundaries, Visual Quiz of Plate Boundaries with Answers, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess

Part 2: Volcanoes: Hot Spots, Volcanoes, Super volcanoes, Yellowstone, Sidoarjo “Lusi” Mud Volcano Case Study, Pompeii, Positives and Negatives of Volcanoes, Types of Volcanoes, Parts of a Volcano, Hazards of Volcanoes, Lahar, Pyroclastic Flows, VEI Index, Magma, Types of Lava, Viscosity of Lava / Silica Content, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess

Part 3: Earthquakes: Deformation, Types of Deformation, Faults, Folds, Types of Stress on Rock, Types of Faults, Lateral Faults, Types of Folds, Anticlines, Synclines, Energy Waves, Mechanical Waves, Body Waves, Surface Waves, Earthquakes, Moment Magnitude Scale, Richter Scale, Earthquake Case Study, Mercalli Scale, Epicenter, Finding an Epicenter, Earthquake Design, Design Challenge with a shake table, Tsunami, Tsunami Case Studies, Causes of Tsunami, Tsunami Warning Signs, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess

Part 4: Minerals: Minerals, Crystals, Uses of Minerals, Types of Crystals, Atomic Bonding, Physical Properties of Minerals, Primary Minerals, Mineral Properties Lab, Common Mineral Identification, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess

Part 5: Rocks and the Rock Cycle: Rocks, Scheme for Igneous Rock Identification, Intrusive, Extrusive Igneous Rocks, Classification for Igneous Rocks, Rocks Flow Chart, Common Igneous Rocks, Common Sedimentary Rocks, Common Metamorphic Rocks, Scheme for Metamorphic Rocks, Regional and Contact Metamorphism, Rock Identification Quiz, Rock Auction Project, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess

Part 6: Earth System History: 8 Lessons of 50 Minutes and 8 Page Follow Along Work Bundle, Earth Broken down into a 12 Hour Day and emergence of Humans, Age of the Earth, Uniformitarianism, Review of the Five Fingers of Evolution, Principle of Superposition, Card Activity with the Principle of Superposition, Earth System History, Units of Time, Understanding the Units of Time, Fragility of the System, Mass Extinction Events, Build a timeline project where students work in groups and create a 4.65 meter long timeline of Earth System History, Protoplanet, Precambrian Supereon, Hadean Eon, Crust Formation, Formation of the Moon, Importance of the Moon Formation, Earth's EM Field, Major Events of the Hadean, Events of the Archean, First Prokaryotic Cells, Tectonic Activity, Stromatolites, Proterozoic Eon, Cyanobacteria, Oxygen Catastrophe, Banded Iron Formations, Snowball Earth, Multi-cellular Life, Major Events of the Proterozoic Eon, Paleozoic Era, Major Events of the Cambrian, Ediacaran fauna, Burgess Shale, Make Burgess Shale Activity, Ordovician, Tetrapod Evolution, Tiktaalik, Ichthyostega, Silurian, Devonian, Carboniferous, Fossil Fuels, and Permian Periods, End Permian Mass Extinction, Major Events of the Mesozoic Era, Pangea, Bird Hipped and Lizard Hipped Dinosaurs, Dinosaur Challenge Activity, How Modern Birds and Dinosaurs are Similar, K-Pg Mass Extinction Event, Cenozoic Era, Paleogene, and Neogene Periods, Epochs and Ages, Presentation of Student Timelines, Box Game Review, Crossword Puzzle, End Unit Assessment where Students Use their Timeline, Answers to Assessment so Students Can Self Assess.

Geology Topics Unit Part 1: Plate Tectonics, Uniformitarianism, Continental Drift, Evidence for Continental Drift, Pangea, Rodinia, Heat and Convection, Energy Waves, Layers of the Earth, The EM Field, Heat Transfer, Types of Crust, Plate Boundaries, Subduction Zones, Converging and Diverging Boundaries, Ring of Fire, Archipelagos, Transform Boundaries,

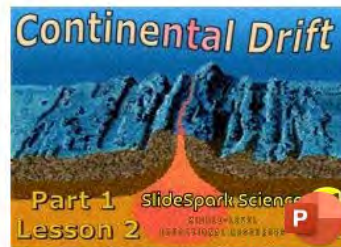
Part 1: Geology Unit



Additional and Printables



Part 1 Lesson 1 Plate Tectonics



Part 1 Lesson 2 Continental Drift



Part 1 Lesson 3 Layers of the Earth I



Part 1 Lesson 4 EM Layers cont.



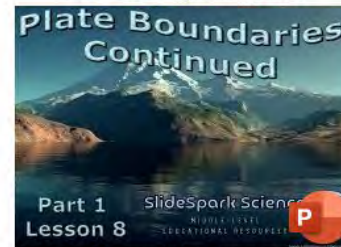
Part 1 Lesson 5 Heat Transfer



Part 1 Lesson 6 Heat Transfer II



Part 1 Lesson 7 Plate Boundaries



Part 1 Lesson 8 Plate Boundaries II



Part 1 Lesson 9 Plate Boundaries III



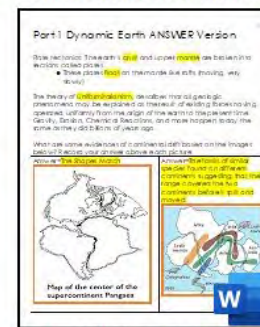
Part 1 Lesson 10 Plate Boundaries IV



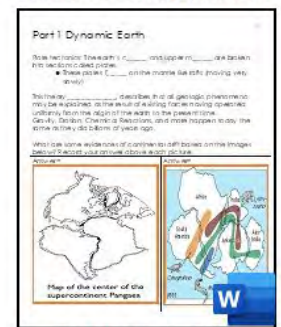
Part 1 Lesson 11 Review Game



Part 1 Lesson 12 Review Game Answers



Part 1 Work Bundle Answers



Part 1 Work Bundle Digital

Geology Topics Unit Part 2: Hot Spots, Hawaii, Volcanoes, Supervolcano, Yellowstone, Sidoarjo “Lusi” Mud Volcano Case Study, Pompeii Case Study, Positives and Negatives of Volcanoes, Types of Volcanoes, Parts of a Volcano, Hazards of Volcanoes, Lahar, Pyroclastic Flows, VEI Index, Magma, Types of Lava, Viscosity of Lava / Silica Content

Part 2: Volcanoes



Additional and Printables



Part 2 Lesson 1 Volcanoes Hawaii Yellowstone



Part 2 Lesson 2 Eruptions Mud Read



Part 2 Lesson 3 Impacts of Volcanoes



Part 2 Lesson 4 Types of Volcanoes



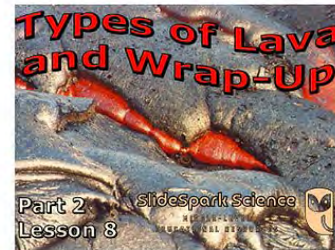
Part 2 Lesson 5 Hazards of Volcanoes



Part 2 Lesson 6 Magma and Lava



Part 2 Lesson 7 Viscosity



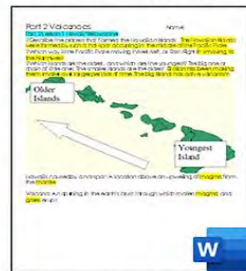
Part 2 Lesson 8 Types of Lava and Wrap Up



Part 2 Lesson 9 Review Game



Part 2 Lesson 10 Review Game Answers



Part 2 Volcanoes Work Bundle Answers



Part 2 Volcanoes Work Bundle Digital



Part 2 Volcanoes Work Bundle Print

Part 3: Deformation, Types of Deformation, Faults, Folds, Types of Stress on Rock, Types of Faults, Types of Folds, Energy Waves, Mechanical Waves, Body Waves, Surface Waves, Earthquakes, Moment Magnitude Scale, Richter Scale, Earthquake Case Study, Mercalli Scale, Epicenter, Finding an Epicenter, Earthquake Design, Design Challenge with a shake table, Tsunami, Tsunami Case Studies, Causes of Tsunami, Tsunami warning signs

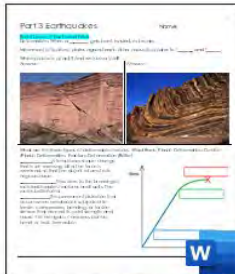
Part 3: Earthquakes



Additional and Printables



Part 3 Earthquakes Work Bundle Answers



Part 3 Earthquakes Work Bundle Print

Faults and Folds

Part 3 Lesson 1

Part 3 Lesson 1 Faults and Folds

Types of Faults

Part 3 Lesson 2

Part 3 Lesson 2 Types of Faults

Lateral Faults

Part 3 Lesson 3

Part 3 Lesson 3 Lateral Faults

Compression Folds

Part 3 Lesson 4

Part 3 Lesson 4 Compression Folds

Mechanical Waves

Part 3 Lesson 5

Part 3 Lesson 5 Mechanical Waves

Seismographs

Part 3 Lesson 6

Part 3 Lesson 6 Seismograph

Epicenter

Part 3 Lesson 7

Part 3 Lesson 7 Epicenter

Design Challenge

Part 3 Lesson 8

Part 3 Lesson 8 Design Challenge

Tsunami

Part 3 Lesson 9

Part 3 Lesson 9 Tsunami

Review Game

Part 3 Lesson 10

Part 3 Lesson 10 Earthquakes Review Game

Review Game

Part 3 Lesson 11

Part 3 Lesson 11 Review Game Answers

Minerals, Crystals, Uses of Minerals, Types of Crystals, Atomic Bonding, Physical Properties of Minerals, Primary Minerals, Mineral Properties Lab, Common Mineral Identification

Part 4: Minerals



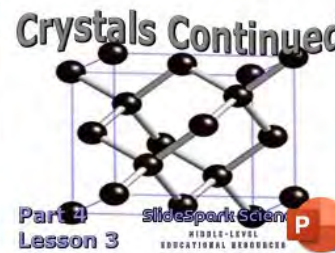
Additional and Printables



Part 4 Lesson 1 Minerals



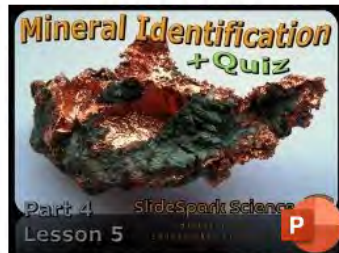
Part 4 Lesson 2 Crystals



Part 4 Lesson 3 Crystal Quiz Bonds



Part 4 Lesson 4 Primary Minerals



Part 4 Lesson 5 Mineral Identification



Part 4 Lesson 6 Mineral Answers Properties



Part 4 Lesson 7 Mineral Properties II



Part 4 Lesson 8 Properties Lab



Part 4 Lesson 9 Properties Quiz Wrap Up



Part 4 Lesson 10 Review Game



Part 4 Lesson 11 Answers to Review Game



Part 4 Minerals Work Bundle Digital



Part 4 Minerals Work Bundle Print Answers



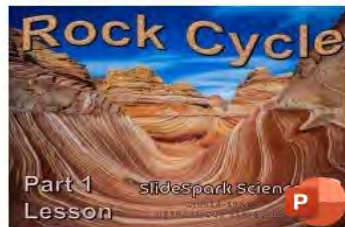
Part 4 Minerals Work Bundle Print

Rocks, Scheme for Igneous Rock Identification, Intrusive, Extrusive Igneous Rocks, Classification for Igneous Rocks, Rocks Flow Chart, Common Igneous Rocks, Common Sedimentary Rocks, Common Metamorphic Rocks, Scheme for Metamorphic Rocks, Regional and Contact Metamorphism, Rock Identification Quiz

Part 5: Rocks and the Rock Cycle



Additional and Printables



Part 5 Lesson 1 Start Rock Cycle



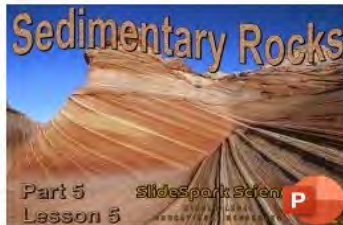
Part 5 Lesson 2 Igneous Rocks



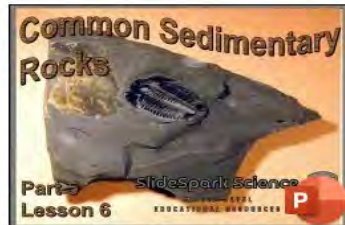
Part 5 Lesson 3 Igneous Rocks cont



Part 5 Lesson 4 Rocks Flow Chart



Part 5 Lesson 5 Sedimentary Rocks



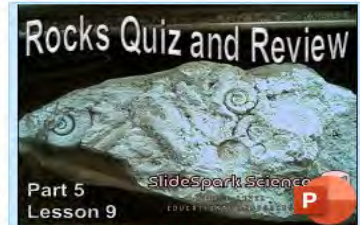
Part 5 Lesson 6 Common Sedimentary



Part 5 Lesson 7 Metamorphic Rocks



Part 5 Lesson 8 Common Metamorphic



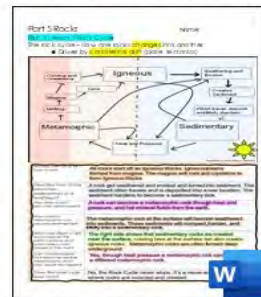
Part 5 Lesson 9 Quiz and Wrap Up



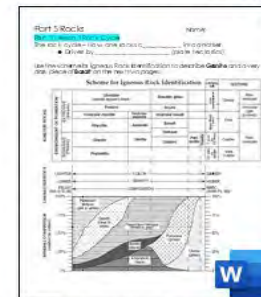
Part 5 Lesson 10 Review Game



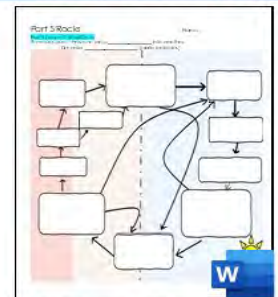
Part 5 Lesson 11 Review Game Answers



Part 5 Rocks Work Bundle Answers



Part 5 Rocks Work Bundle Digital



Part 5 Rocks Work Bundle Print

Part 6: Earth System History: 8 Lessons of 50 Minutes and 8 Page Follow Along Work Bundle, Earth Broken down into a 12 Hour Day and emergence of Humans, Age of the Earth, Uniformitarianism, Review of the Five Fingers of Evolution, Principle of Superposition, Card Activity with the Principle of Superposition, Earth System History, Units of Time, Understanding the Units of Time, Fragility of the System, Mass Extinction Events, Build a timeline project where students work in groups and create a 4.65 meter long timeline of Earth System History, Protoplanet, Precambrian Supereon, Hadean Eon, Crust Formation, Formation of the Moon, Importance of the Moon Formation, Earth's EM Field, Major Events of the Hadean, Events of the Archean, First Prokaryotic Cells, Tectonic Activity, Stromatolites, Proterozoic Eon, Cyanobacteria, Oxygen Catastrophe, Banded Iron Formations, Snowball Earth, Multi-cellular Life, Major Events of the Proterozoic Eon, Paleozoic Era, Major Events of the Cambrian, Ediacaran fauna, Burgess Shale, Make Burgess Shale Activity, Ordovician, Tetrapod Evolution, Tiktaalik, Ichthyostega, Silurian, Devonian, Carboniferous, Fossil Fuels, and Permian Periods, End Permian Mass Extinction, Major Events of the Mesozoic Era, Pangea, Bird Hipped and Lizard Hipped Dinosaurs, Dinosaur Challenge Activity, How Modern Birds and Dinosaurs are Similar, K-Pg Mass Extinction Event, Cenozoic Era, Paleogene, and Neogene Periods, Epochs and Ages, Presentation of Student Timelines, Box Game Review, Crossword Puzzle, End Unit Assessment where Students Use their Timeline, Answers to Assessment so Students Can Self Assess.

Part 6: Earth System History



Part 6 Lesson 1 Age of the Earth



Part 6 Lesson 2 Units of Time



Part 6 Lesson 3 Precambrian Super Eon



Part 6 Lesson 4 Paleozoic



Part 6 Lesson 5 Mesozoic



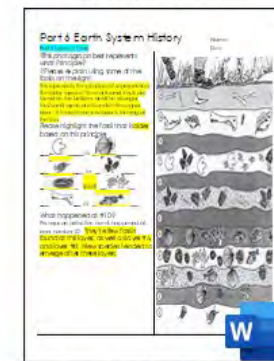
Part 6 Lesson 6 Cenozoic



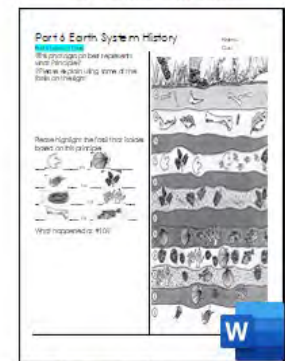
Part 6 Lesson 7 Review Game



Part 6 Lesson 8 Review Game Answers



Part 6 Work Bundle Answers



Part 6 Work Bundle Digital

Curriculum Guide

Number of Lessons in each unit (50 min, daily lessons) and difficult rating scale / intended grade level.

 =Easier,

 = More difficult,

 =Most difficult

Earth Science Units	Daily Lessons	Intended Grade	
Geology Topics Unit	60 Lessons	6-8 medium difficulty	
Weather and Climate Unit	40 Lessons	6-8 medium difficulty	
Astronomy Unit	60 Lessons	6-8 medium difficulty	
Weathering, Soil Sciences	28 Lessons	5-7 easier	
Rivers and Water Quality	25 Lessons	5-7 easier	
Water Molecule Unit	20 Lessons	5-7 easier	
Biogeochemical Cycles Unit	16 Lessons	5-7 easier	

Earth Science Curriculum

SlideSpark Science

MIDDLE-LEVEL
EDUCATIONAL RESOURCES



Entire Water Unit

27 Lessons

Rivers, Lakes, Water Quality Unit

20+ Lessons

7 Units • 250 Lessons

Interactive Slideshows with Chronological Work Bundles
Hundreds of Pages, Activities, Projects, Videos, Academic Links, Assessments, Games & Keys All Built-In for Seamless, Ready-to-Go Learning

Biogeochemical Cycles

17 Lessons

GEOLOGY Mega Bundle

6 Parts, 60 Lessons

Weathering, Soil Science, Ice Ages, Glaciers Unit

5 Parts 36 Lessons

Interactive Slideshows Follow Along Bundles

Weather and Climate Mega Bundle

40 Lessons

7 Units

Astronomy Mega Bundle

60 Lessons

7 Units

Grades 5-10

Life Science Units

Life Science Units	Daily Lessons	Intended Grade	
Ecology Feeding Levels Unit	13 Lessons	5-6 easier	
Ecology Interactions Unit	30 Lessons	5-6 easier	
Ecology Abiotic Factors Unit	13 Lessons	5-6 easier	
Botany Unit	50 Lessons	5-7 easier	
Evolution and Natural Selection	40 Lessons	5-7 easier	
Taxonomy and Classification	50 Lessons	6-8 medium difficulty	
Infectious Diseases Unit	30 Lessons	7-9 more difficult	
DNA and Genetics Unit	42 Lessons	8-10 most difficult	
Human Body Systems Unit	85 Lessons	6-8 medium difficulty	
Cell Biology Unit	30 Lessons	8-10 most difficult	

Life Science Curriculum

SlideSpark Science

MIDDLE-LEVEL
EDUCATIONAL RESOURCES



Interactive Slideshows Follow Along Bundles

10 Units of Study



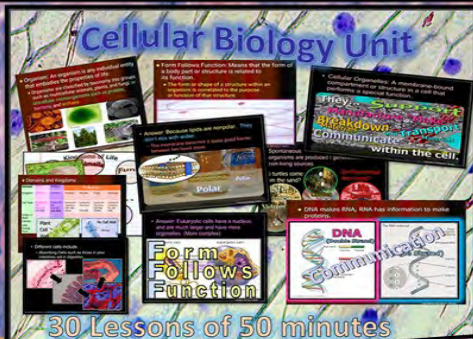
Botany Unit



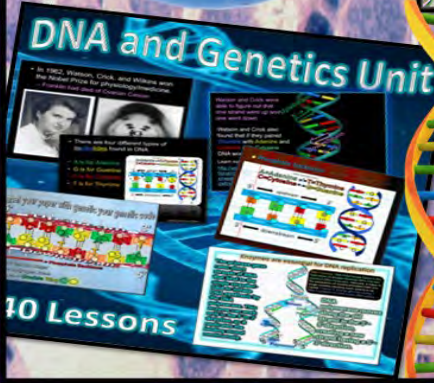
Human Body Systems Unit



Cellular Biology Unit



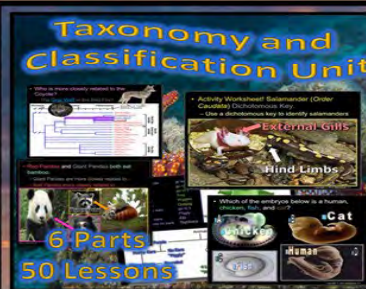
DNA and Genetics Unit



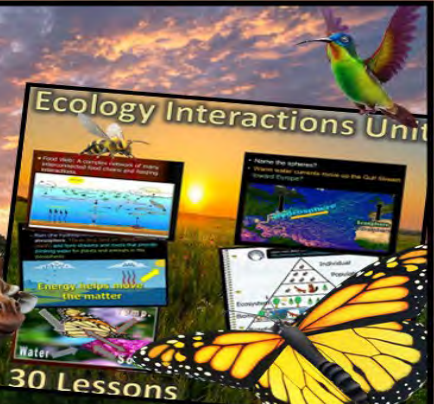
Infectious Diseases



Taxonomy and Classification Unit



Ecology Interactions Unit



Ecology Feeding Level Full Unit



Ecology Abiotic Factors Unit



Physical Science

	Daily Lessons	Intended Grade	
Laws of Motion and Machines Unit	33 Lessons	8-10 most difficult	
Matter Energy and the Environment	58 Lessons	7-10 medium difficulty	
Atoms and Periodic Table Unit	44 Lessons	8-10 most difficult	
Science Skills Unit	30 Lessons	5-7 medium difficulty	

[Physical Science Curriculum](#)

[Entire SlideSpark Science Curriculum](#)



Physical Science Curriculum

SlideSpark Science

MIDDLE-LEVEL
EDUCATIONAL RESOURCES



Science Skills Unit

5 Parts, 30 Lessons

Physical Science Curriculum,
4 Units • 165 Lessons of 50
mins, Interactive Slideshows
with Chronological Work
Bundles, Hundreds of Pages,
Activities, Labs, Projects,
Video & Academic Links,
Assessments, Games, Keys,
All Built-In for Seamless
Ready-to-Go Learning

Thousands of Interactive Slides

67 Pages of Follow Along
Work Bundle

Assessments, Games,
Video Links, and more

Everything you need to run an
amazing learning experience

Interactive Slideshows Follow Along Bundles

Grades 7-10

Laws of Motion and
Simple Machines Unit

33 Lessons

With Follow Along
Work Bundles

63 Pages

Assessments, Activities,
Projects, and so much more

Atoms and Periodic Table Unit

6 Parts, 44 Lessons

Thousands of Interactive Slides

Follow Along Work Bundle

108 Pages, with Labs,
Quizzes, more, all built-in

Exciting Activities, Questions,
Videos, All built-in

Matter and Energy and the Environment Unit

58 Lessons

Interactive Slideshows

with Follow Along Work Bundles

125 Pages

Activities, Assessments,
and more, all built-in

Dear Valued Educator,

Our fully editable .pptx and .doc resources are perfect for educators looking to bring enthusiasm and creativity to their lessons. We encourage you to make changes to fit your needs and style. As science educators, we're committed to providing students with the tools they need to succeed in the classroom and beyond. Each unit in the curriculum includes a range of resources that have been developed through extensive research and use in a busy classroom. Our teaching approach is designed to make science education engaging and exciting for learners of all ages. We offer a one-of-a-kind science curriculum that will challenge, inspire, and educate students to become tomorrow's scientists and leaders. Join us today and learn more about how our program can help you achieve your classroom goals.

With appreciation,

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Sincerely,

Support@slidespark.net



SlideSpark Science

MIDDLE-LEVEL
EDUCATIONAL RESOURCES



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