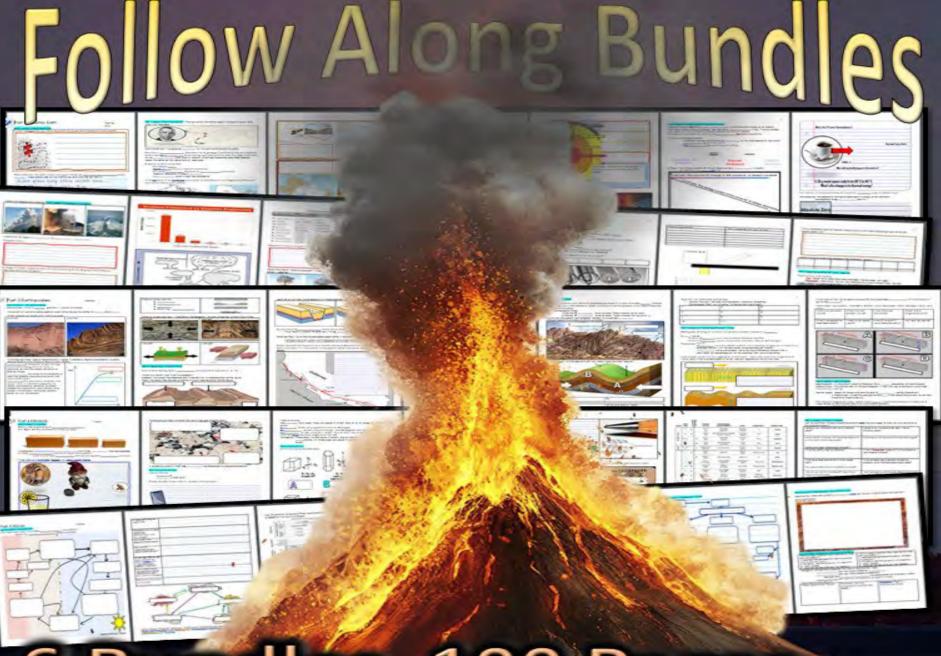


Hundreds of Amazing and Interactive Slides





6 Bundles, 100 Pages

Assessments, Activities, Keys, Games and More



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.





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

Boundaries → ←: Crust is destroyed and recycled back into the interior of the

Please label the boundary

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 that 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.



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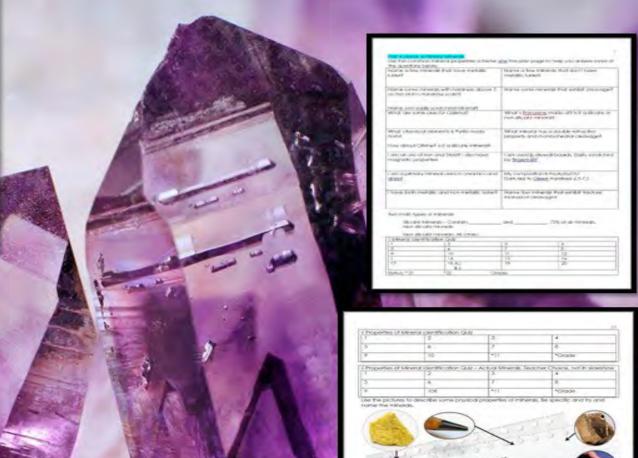
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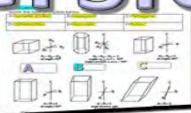
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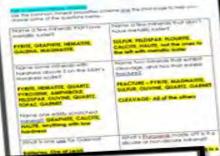


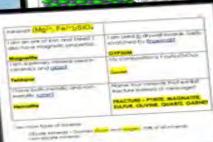




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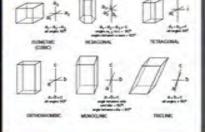






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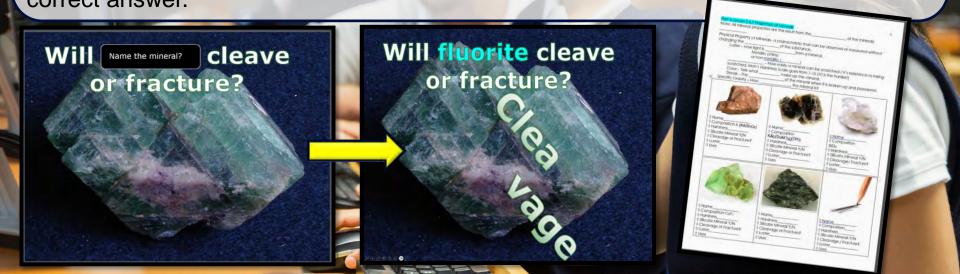
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Many slides will have relevant terms covered with a box. When advancing through the slideshow an outline around the box will glow with a bright color. The next slide will make the box disappear. These slides allow the teacher to call upon students 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.

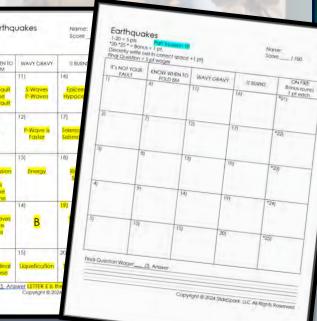


Review Game / Assessments

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.







Secondary

Which wave is faster? S or p.

loth can travel

Are Pol Body



What type of fold can be seen below (3 pts)
 Name and A and B for I point each?

Name and A and B for I point each?

Ike rock.

- They can be Longitudi

compression

P waves are longitudinal waves

S waves are transverse waves

uake, body waves move through rt of the earth, while surface waves

 What two types of waves can be seen below? Which is which?

oth Body Waves

S-Wave
Secondary Wave

Side to Side

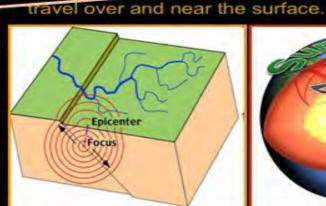
Transverse

Walves Dess Powerful

P-Wave Primary Wave

Lateral -

Longitudinal



arrive first



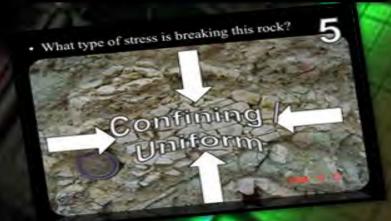
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Name this type of fault and stress?

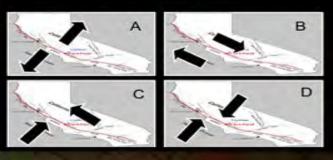


- What is this a picture of? Be specific!
 - This is a picture of a <u>lateral or strike-slip fault</u>.
 The surfaces are moving past each other.

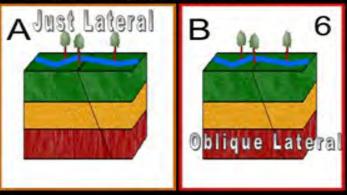




Which picture is the correct movement of the 7 plates along the San Andreas Fault?



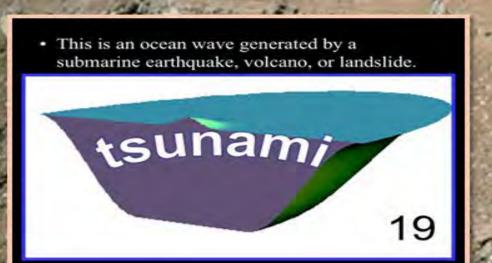
· Which is an oblique lateral fault? Answer B

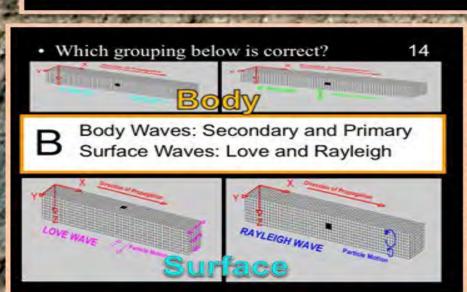


Which letter is a fault, and which letter is a fold based on the pictures below.

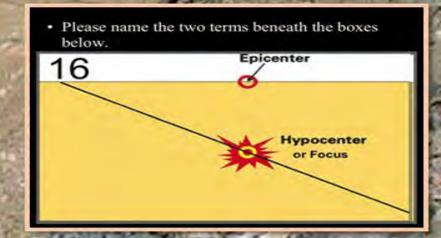


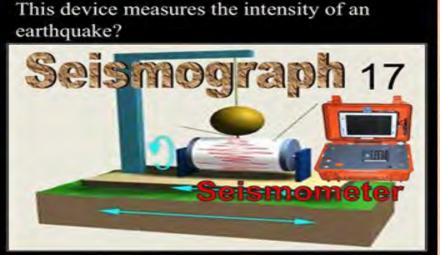






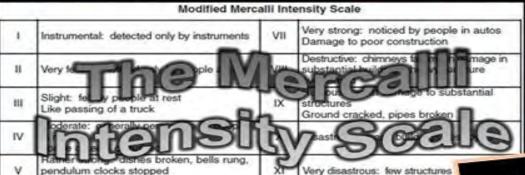






 This is the name for a twelve-point scale for expressing the local intensity of an earthquake

— 1= Virtually Unnoticed to a 12= Total Destruction!



XII

This is a process where sand or landfill will often change from a wet solid into a dense liquid, which further amplifies shaking.

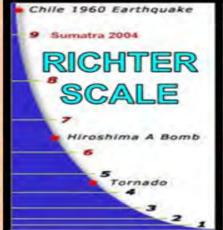


Liquefaction

 An earthquake is the shaking of the earth's crust from a sudden release of energy.

Name either of these scales for measuring earthquake magnitude?

18

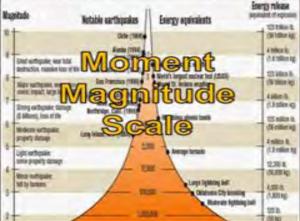


People awakened

VI

Strong: felt by all, some people frightened

Damage slight, some plaster cracked



Catastrophic: total destruction



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 handson 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

8



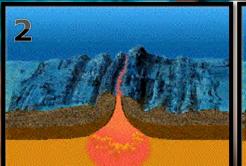
Built-in Assessment

This unit contains built-in assessments that students answer in their work bundle. With the question revealed before the answer, the teacher can easily call on individual students or table groups to respond. These provide an effective and efficient way for

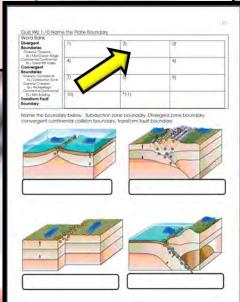
teachers to assess student learning.



Transform Fault Boundary







Quiz in Work Bundle

Built-in Video Links

Our science education program is designed with the modern, multimedia learner in mind, and our video 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.

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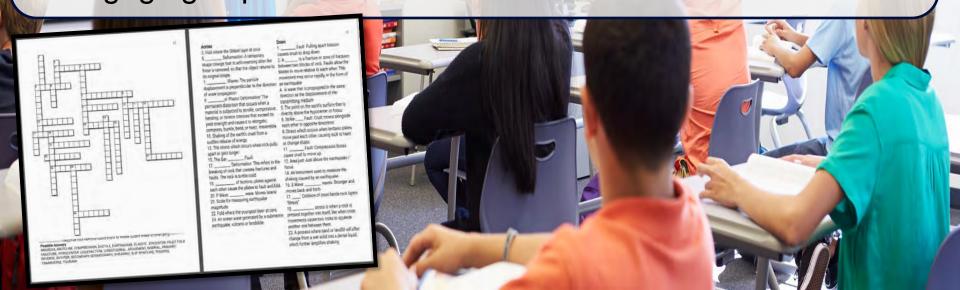
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Games and Review

Games are a fantastic way for students to learn scientific concepts while having fun. We incorporate a variety of games into our curriculum, including interactive quizzes and puzzles that challenge students to think critically about the material. Our Hidden Box Games are a particularly popular feature, which conclude each unit by revealing a picture related to the topic. Students try to guess what the picture might be, making learning an engaging experience.





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 1 Lesson 2 Continental ... Google Slides



Part 1 Lesson 8 Plate Bound... Google Slides







Part 1 Lesson 6 Heat Transf... Google Slides



Part 1 Lesson 3 Layers of th... Google Slides



Part 1 Lesson 9 Plate Bound... Google Slides



Part 1 Lesson 11 Review Game



Part 1 Lesson 10 Plate Boun... Google Slides



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Part 1 Lesson 5 Heat Transfer Google Slides



Part 2 Lesson 8 Types of La... Google Slides



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Part 2 Lesson 9 Review Game Google Slides



Part 2 Lesson 5 Hazards of ... Google Slides



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Part 2 Lesson 7 Viscosity Google Slides



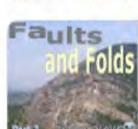
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Part 3 Lesson 9 Tsunami Google Slides



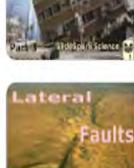
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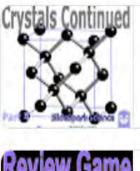
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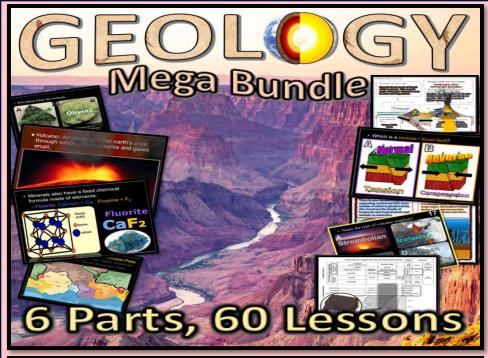
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Geology Unit

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, VEL 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 Unti 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 Until 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



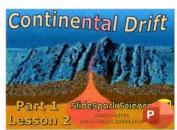
Part 1 Lesson 5 Heat Transfer



Part 1 Lesson 1 Plate Tectonics



Part 1 Lesson 6 Heat Transfer



Part 1 Lesson 2 Continental Drift



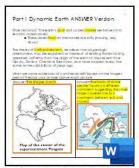
Part 1 Lesson 7 Plate Boundaries



Part 1 Lesson 3 Layers of the Earth



Part 1 Lesson 8 Plate Boundaries



Part 1 Work Bundle Answe



Part 1 Lesson 4 EM Layers cont.



Part 1 Lesson 9 Plate Boundaries II



Part 1 Work Bundle Digita



Part 1 Lesson 10 Plate Roundaries IV



Part 1 Lesson 11 Review Game



art 1 Lesson 12 Review Game Answers

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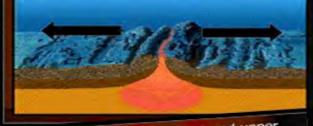


- from ocean crust convergence.
 - · What type of plate boundary is shown below.
 - A.) Subduction Zone answer is ...
 - B.) Divergent Ocean Boundary
 - C.) Convergent Continental Boundary 16
 - D.) Divergent Continental Bound
 - Mantle: Composed of Magnesium Silicates, Iron, Calcium, Oxygen, Aluminum.
 - Outer Mantle (asthenosphere)

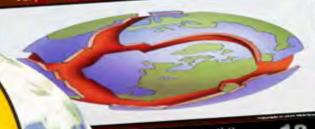
Trench -SLAB PULL" Lithosphere

ssons

 Divergent Boundaries ← →: Crust is created as two or more plates pull away from each other.



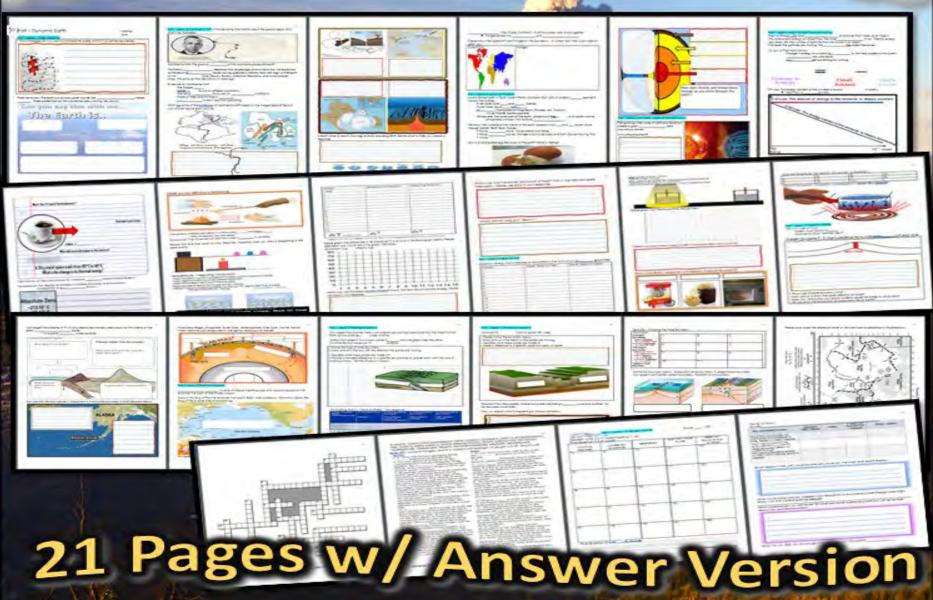
- Plate tectonics: The earth's crust and upper mantle are broken into sections called plates.
 - These plates float on the mantle like rafts (moving very slowly)



- moury on earth? O Transform

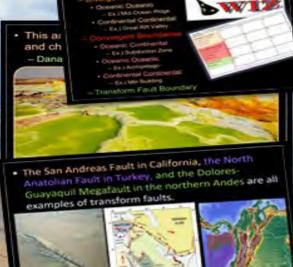
Interactive Slideshows The Swiss Alps is an example of mountains that form when continents collide. This is created because of the Earth's dense - The African Plate is colliding with the Eurasian Optional, Get a full graham cracker metal core? an Plate inge graham crackers on wax paper it of eater so they get soft divergent plate. 1celand Mountains were just like nland, treland, Great Britain, and Norway. The Answer! The blue arrows Convergent Boundaries → ←: should be moving toward each other. destroyed and recycled back into of the earth. (subduction zone) One plate dives under another. This scientist was the first to propose that the continents were once together? Alfred Wegener Oceanic crust Lithosphere and G Asthenosphere

Follow Along Bundles



Activities, Links, Keys, Assessments, All Built in





consisting of the crust and upper mantle. · Lithosphere is broken into tectonic plates.



higher (Granites)

Deep Dish Thin Grust All of the plates were once together.



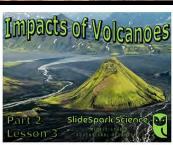
Geology Topics Unit Part 2: Hot Spots, Hawaii, Volcanoes, Supervolcano, Yellowstone, Sidoarjo "Lusi" Mud Volcano Case Study, Pompeii Case Study, Positives and Negatives of Volcanoes, Types of Volcanoes, Parts of a Volcano, Hazards of Volcanoes, Lahar, Pyroclastic Flows, VEI Index, Magma, Types of Lava,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

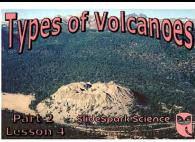
Part 2: Volcanoes





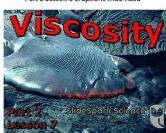
Part 2 Lesson 2 Eruptions Mud Read























Volcanoes Unit

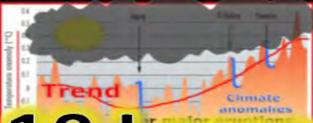
 Hawaii is caused by a hot spot: A location above an upwelling of magma from the mantle.

Let's Make Hawaii!

Hawaii's Hos Spo Learn mor http://www.mi et/marinescience/02 an/hwgeo.htm

 Volcano: An opening in the earth's crust through which molten magma and gases erupt.

 Eruptions can have a tremendous impact on global climate.

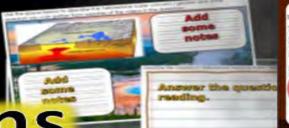


10 Lessons

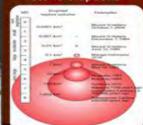


Yellowstone's Burning Question?

- Please read article and answer prof
- Are we in danger?



 Volcanic Explosivity Index (VEI) is a numeric scale that measures the relative explosivity of historic eruptions.





interactive Slideshows



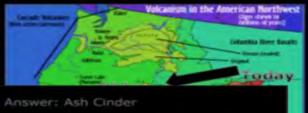
- https://www.youtube.com/watch?y=-H_HZVY1tT4



· Science witnessed the "birth" of the island of Surtsey off the coast to Iceland



 The Hot Spot under the continent has erupted periodically throughout history.

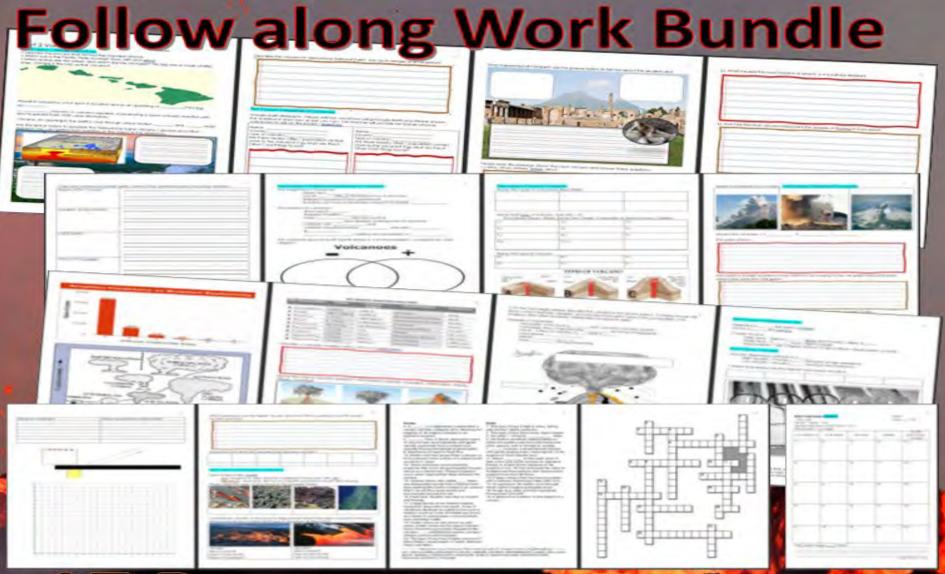




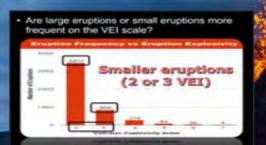
- Indonesian Mud Volcano.
 - Sidoarjo mud flow "Lusi mudflow"

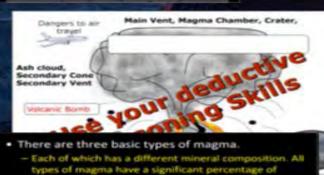


Partnered with a detailed



Activities, Assessments, games, and much more all built-in













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, Mercalii Scale, Epicenter, Finding an Epicenter, Earthquake Design, Design Challenge with a shake table, Isunami, Tsunami Case Studies, Causes of Tsunami, Tsunami warning signs

Part 3: Earthquakes











Additional and Printables























Earthquake



Mechanical Waves are waves which propagate through a material like rock. - They can be Longitudinal and Transverse P waves are longitudinal waves

Both types of S waves are Bod WavWaV@S

Tension FW Normal Fault

occurs. San Andreas Trans Bound Lessons

 An earthquake is plate movement that happens very quickly instead of slowly. Tremendous Energy! Difficult to predict Martin Service Services STATES STATES

> Damping: Buildings in general dissipate vibration by absorbing it.

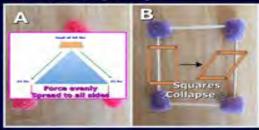
Damping is a rate at which natural vibration is



Wanted and



Which is a stronger design?



. This is a process where sand or landfill will often change from a wet solid into a dense liquid, which further amplifies shaking.



Liquefaction

Fault: Break / crack where

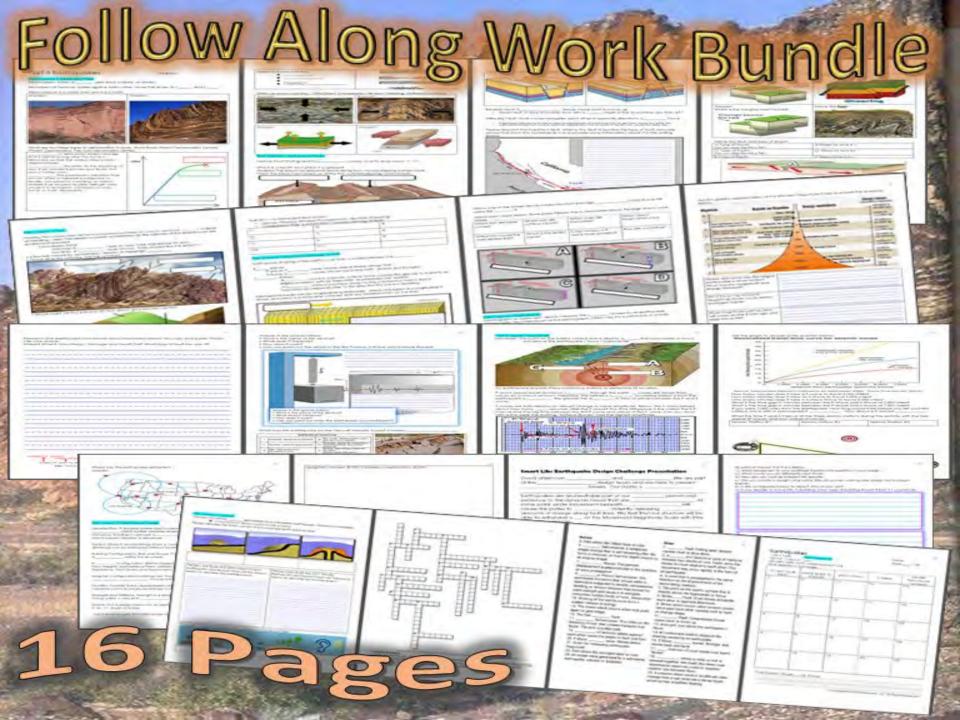
SHEAR!

P Wave: Primary wave. Moves lateral

Called a...

Longitudinal Wave

Also a body wave Record in journal



Interactive Slig

. Anticline: @ Oldest layer at core.



 Reverse Fault: Compression forces ca crust to move up.

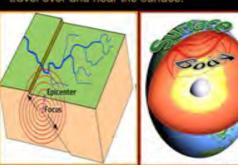
Thrust (reverse) Fault



 This is the name for a twelve-point scare for expressing the local intensity of an earthquake
 1 = Virtually Unnoticed to a (2 = 1000 1) constant.

	spiceties ment	-	mond acme
1.	Instrumental: detricted only by instruments	VIII.	Very strong: noticed by people in autos Camage to poor construction
	- STIME M	k	vacal
10	Style Name of a Nick	1	Ground cracked core basin
W	intensi	ZV	7 Scale
v	pendulum clocks stopped People awakened	2	Vory distatrous: New structures left standing
W	Strong: felt by all, some people frightened Damage slight, some plaster cracked	ж	Catamophic total destruction:

 In an earthquake, body waves move through the inner part of the earth, while surface waves travel over and near the surface.



· Which is a reverse / thrust fault?

P = Primary

Body waves

First S wave

S and P



First P wave



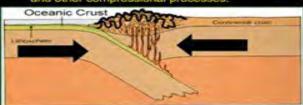
Love

Surface waves

Country of the Story

 Orogeny: The formation of mountain ranges by intense upward displacement of the earth's crust.

 Usually associated with folding, thrust faulting, and other compressional processes.



plastic region
elastic region
strain

Earth Quake Drill: "Drop, Cover, and Hold on."
 http://www.youtube.com/watch?v=LP57C0LITrc



Assessments, Projects, Games, Keys, and much more

More

"Brittle"

- · Activity! Making folds.
 - Flatten out layers of different colored clay and lay them on top of each other.
 - Compress clay together from either end.
 - Draw your compression fold in your journal.

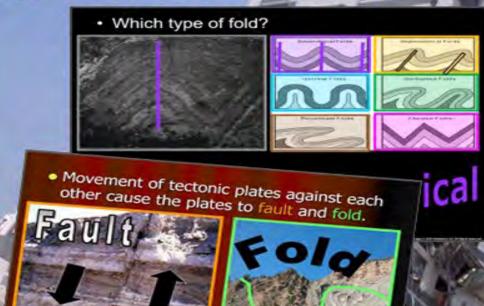
Younger Layer
Older Layer

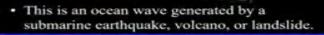
· Name the type of fault or stress.



Carryingicas Fault in Camonna.







More "Plastic"



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

Part 4: Minerals



Additional and Printables

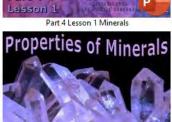


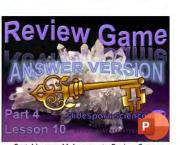
Part 4 Lesson 5 Mineral Identification





Part 4 Lesson 6 Mineral Answers Properties





Part 4 Lesson 11 Answers to Review Game



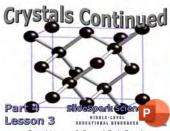
Part 4 Lesson 2 Crystals



Part 4 Lesson 7 Mineral Properties I



Part 4 Minerals Work Bundle Digital



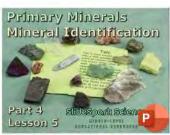
Part 4 Lesson 3 Crystal Quiz Bonds



Part 4 Lesson 8 Properties Lab



Part 4 Minerals Work Bundle Print Answers



Part 4 Lesson 4 Primary Minerals





Part 4 Minerals Work Bundle Print







A chipmunk is not a mineral because it is a living creature, Minerals must be inorganic.

· Minerals are natural inorganic (non-living) solids that join together (crystals) to make unique compositions.

Lemonade is not a

This is a mineral

· Note: All mineral properties are the result from the arrangement of the minerals atoms.

Fluoris



Gravity /

Mass Volume

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Filled to very top

debate on ice being a

mineral because its

Name a use for Plagioclase Feldspar?

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CONTRACTOR OF THE PARTY OF

cubes are not a mineral because they were man made. These ice blocks are minerals because they're naturally occurring.

 Minerals are natural inorganic (non-living) solids that join together (crystals) to make unique compositions.

active sideshow Processed and used as prefabricated wallboard or an industrial or building plaster.



Atoms / Gray

 Minerals also have a fixed chemical formula made of elements.

Quartz = SiO (S=Silicon

What is the chemical

of the mineral

Fe₂O₃



Note: Not always the same color as the mineral

te mineral

in, O = Oxygen



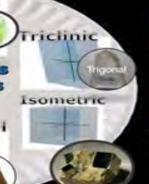
Feldspan

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(FEDERAL)

Glossy Luste





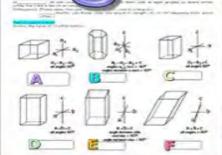
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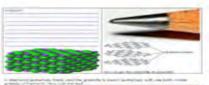














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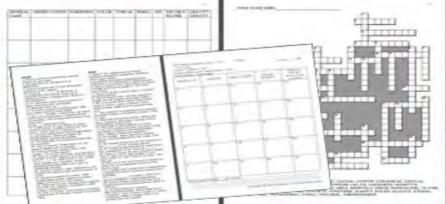
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Activities, Assessments, Review, Games, and more all built-in



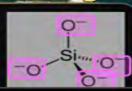
- Teacher assigns students one at a time to create some form of atomic structure by laying on the floor and using your arms and legs to form



 Silicate Minerals: Contains silica and oxygen, 75% of all minerals.

Some Silicate Minerals Which are the big 3?

Silicate is a chemical term for the group of a single atom of silicon surrounded by four atoms of oxygen, or SiO.



Name these two minerals?



This mineral is a magnesium iron silicate. Common mineral in the earth's surface.

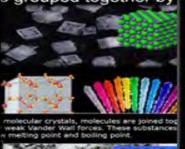
Olivine



An important rock forming mineral. A major mineral in the rock basalt.

Pyrc

e grouped together by



· Which minerals are Felsic and which are characterized Mafic?







20

· This mineral has many unique properties. Name the mineral and at least one property.



acture

equal in length and at 90° other.)

ıs naraer than that which has been scratched."

Typically Qoag

Slight gloss

Mica Tossavage

CIGGVEGE

Feldspar

Soft - Mineral shows scratch Hard - Mineral does not Show scratch

scratches corundum



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

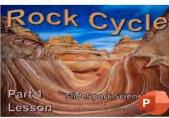
Part 5: Rocks and the Rock Cycle



Additional and Printables



Part 5 Lesson 5 Sedimentary Rocks



Part 5 Lesson 1 Start Rock Cycle



Part 5 Lesson 6 Common Sedimentary

s and the Rock

e Review Game



Part 5 Lesson 2 Igneous Rocks



Part 5 Lesson 7 Metamorphic Rock



Part 5 Rocks Work Bundle Answer



Part 5 Lesson 3 Igneous Rocks con



Part 5 Lesson 8 Common Metamorphic



Part 5 Rocks Work Bundle Digita



Part 5 Lesson 4 Rocks Flow Chart



Part 5 Lesson 9 Quiz and Wrap Up



Part 5 Rocks Work Bundle Prin



Part 5 Lesson 10 Review Game

Please name the three types of rocks from the diagram below. jin studling our Igneous Rocks. temember to move the cards around to match Changed by extreme heat hem up. Make sure to read the supporting text. Pumice Andesite Sediment Basalt Obsidian Gabbro Igneous sion · Which rocks are incorrectly I Diorite Rhyolite Crystalization

Obsidian Felsic

Basalt Mafic

Rhyolite Felsic



Sandanone is a classic edimentary rock made

· Which is Rhyolite and which is Granite?



Rhyolite Cooled

More Ebdructve

Sandstone

Please mention three things about these rocks.

Limestone

pes of Sedimentary Rocks Small pieces of rock are "lithified" or

asaltic: Dark, heavy (dense)

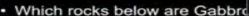


10 Lessons

Interactive Slideshows



Video Link: http://www.yorn.ce.com/watch?v=OBTasvi.Es.JB





All rocks start off as igneous Rocks, Igneous me formed from magma. The magma will cool and a form igneous Rocks.

A rock get weathered and eroded and turned int sediment often travels and is deposited into a ne sediment hardens to become a sedimentary roc

A rock can become a metamorphic rock through pressure, and hot mineral fluids from the earth.

The metamorphic rock at the surface will become into sediments. These sediments will compact, h lithify into a sedimentary rock.

The right side shows that sedimentary rocks are near the surface, cooling lava at the surface can igneous rocks. Metamorphic rocks are often for underground.

Yes, through heat pressure a metamorphic rock a different metamorphic rock.

No, the Rock Cycle never stops. It's a never-enwhere rocks are recycled and created. A sedimentary rock like a conglomerate can be pressed into a metamorphic rock such as metaconglomerate.

This is the foliated

etamorphic rock gneiss

It has many mineral types

gregated into bands.

metamorphic rock marble. It

is from the metamorphism

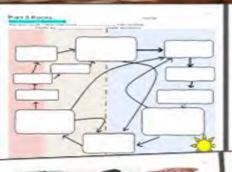
of limestone, It is course to

fine grained.



Total Street Street, or other Desires.

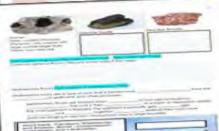
Follow Along Bundle

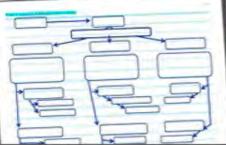




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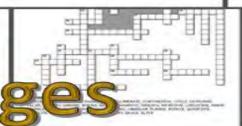








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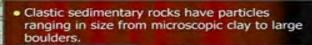
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Activities, F Assessments, and more

. There are 8 primary plates and several more secondary plates that make up the earth's landmass.

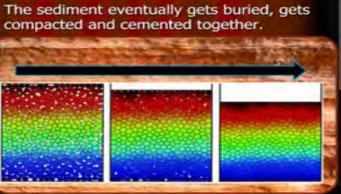




 Which of the rocks below cooled quickly (Extrusive) and which cooled slowly (Intrusive)? Which one has large crystals?



The sediment eventually gets buried, gets



Meta conglome

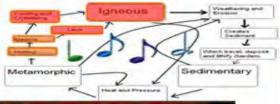


 If a metamorphic rock gets hot and melts. it becomes igneous.

The space b

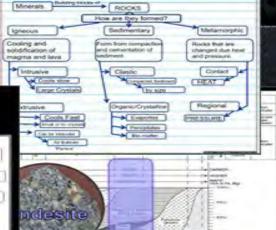
the cloth is a

- The cycle starts over.



- Igneous Rocks: Moiten Earth cooled.
 - Intrusive Cooled below crust (slow) Larger crystals
 - Extrusive Cooled on Earth's surface (faster). Fine grain crystals or no crystals

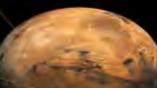




cture of Conglomerate from Mars. vidence of water / stream beds / mud.



Granite



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, Siluitian, 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



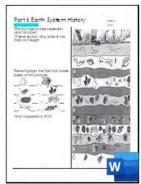
Part 6 Lesson 7 Review Game



Part 6 Lesson 8 Review Game Answers



Part 6 Work Bundle Answers



Part 6 Work Bundle Digital

Earth System History Unit



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



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



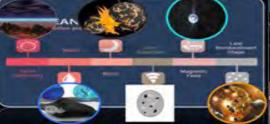
layers of time-secreting cyanobacteria and trapped sediment, found in Archean rocks as the earliest known fossils

Stromatolites: A calcareous mound built up of

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



Major Events of the Hadeon Eon



inal Ouestion?

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

Trilobite

Which is older, Fish or Snails?



Properties designations

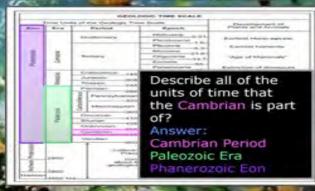


Lessons and Proj

Interactive Slideshows



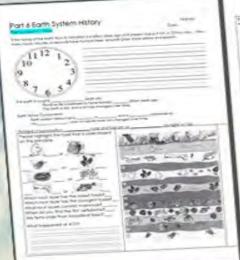


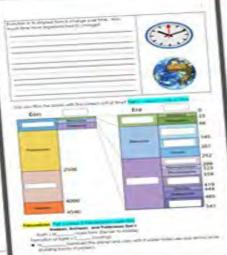


- Principle of superposition. The rock layers on the bottom are older.
 - More primitive creatures are seen in the older rock layers.



Follow Along Bungle





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Part 6 EARTH SYSTEM HISTORY

COLUMN TO SE



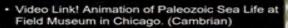


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+ Build a timeline Project

Project, Assessments, Games And more all built-in



http://www.youtube.com/watch?v=LbhGWDjOkP0



Hadean Eon Archean Eon Proterozoic Eon Paleozoic Era Mesozoic Era

4.56 meters

2 b.v. 3 b.y. 4 b.y. .56 b.y.

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

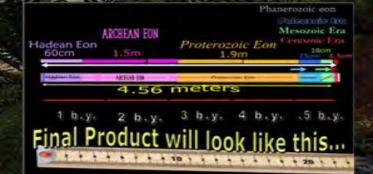
- Earth's Timeline is divided into various units of time.
 - Eon (Longest amount of time)
 - Archeon, Proterozoic



Meteorites bombard the planet.

The earth increases in size.





Curriculum Guide

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





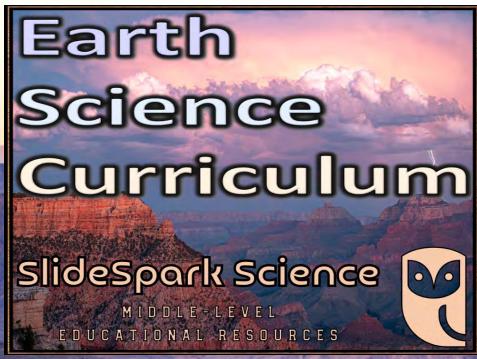
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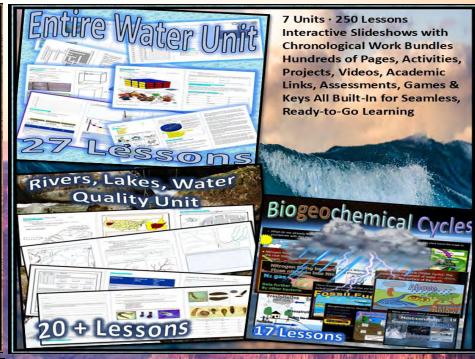


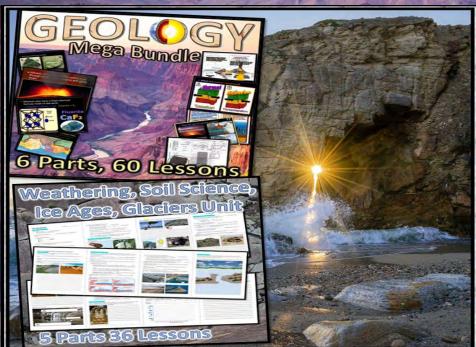
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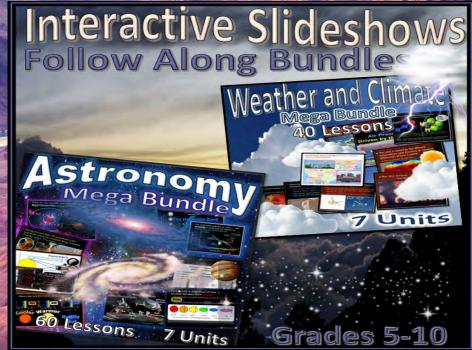
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Earth Science Units	Daily	Intended	
	Lessons	Grade	
Geology Topics Unit	60 Lessons	6-8 medium	MORE DIFFICULT
		difficulty	
Weather and Climate Unit	40 Lessons	6-8 medium	MORE
		difficulty	
Astronomy Unit	60 Lessons	6-8 medium	MORE
		difficulty	
Weathering,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

Earth Science Curriculum









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

Life Science Curriculum







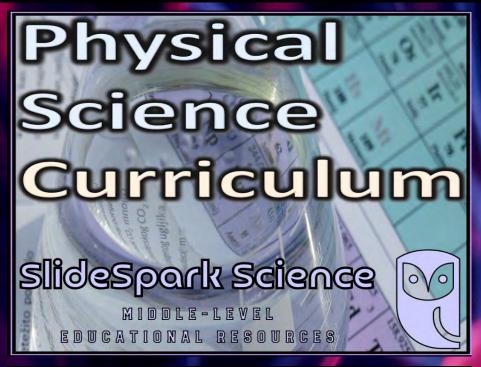


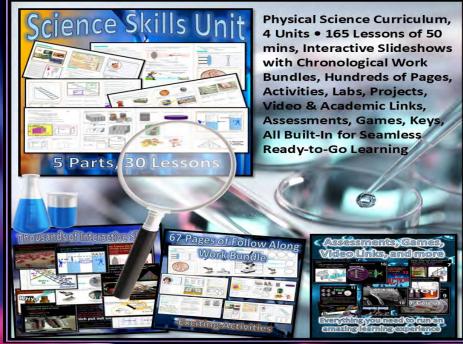
Physical Science	Daily Lessons	Intended Grade	
Laws of Motion and Machines Unit	33 Lessons	8-10 most difficult	Most Difficult
Matter Energy and the Environment	58 Lessons	7-10 medium difficulty	MORE
Atoms and Periodic Table Unit	44 Lessons	8-10 most difficult	Most Difficult
Science Skills Unit	30 Lessons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

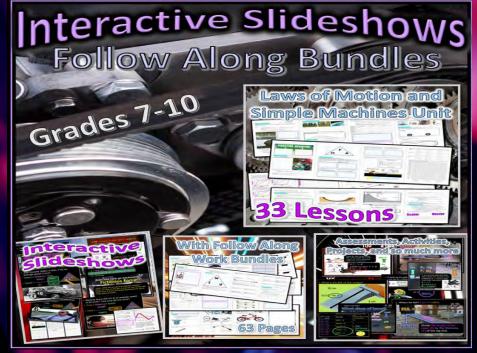
Physical Science Curriculum



Entire SlideSpark Science Curriculum









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SlideSpark Science

MIDDLE-LEVEL EDUCATIONAL RESOURCES



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