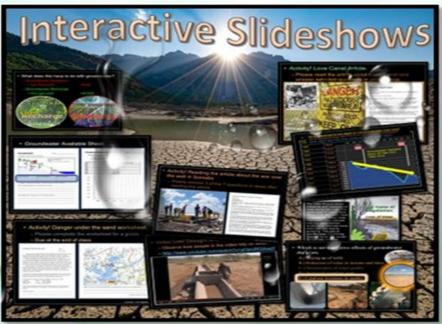


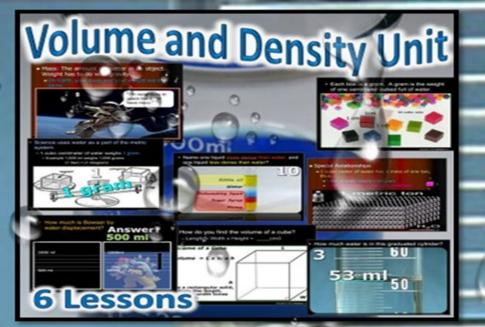
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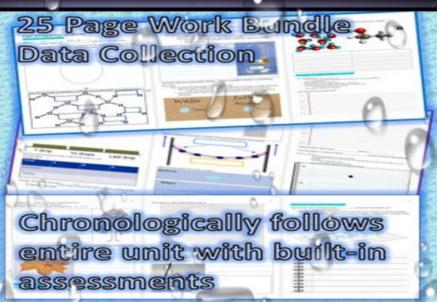






6 Lessons









15 Lessons

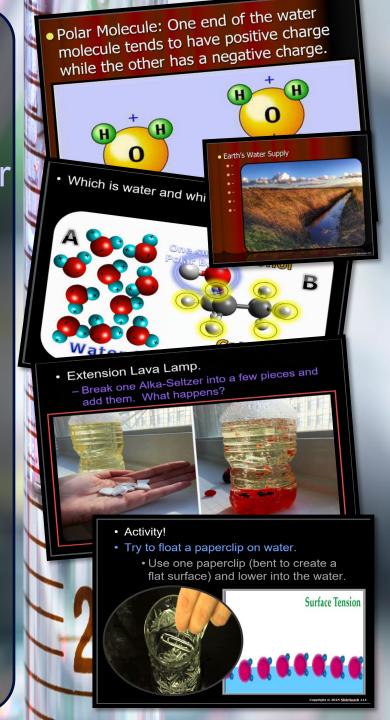
SlideSpark Science

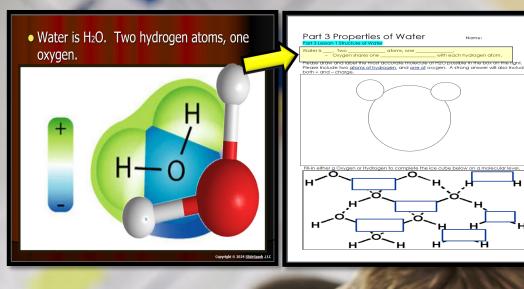
MIDDLE-LEVEL EDUCATIONAL RESOURCES



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.



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 guizzes, 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.

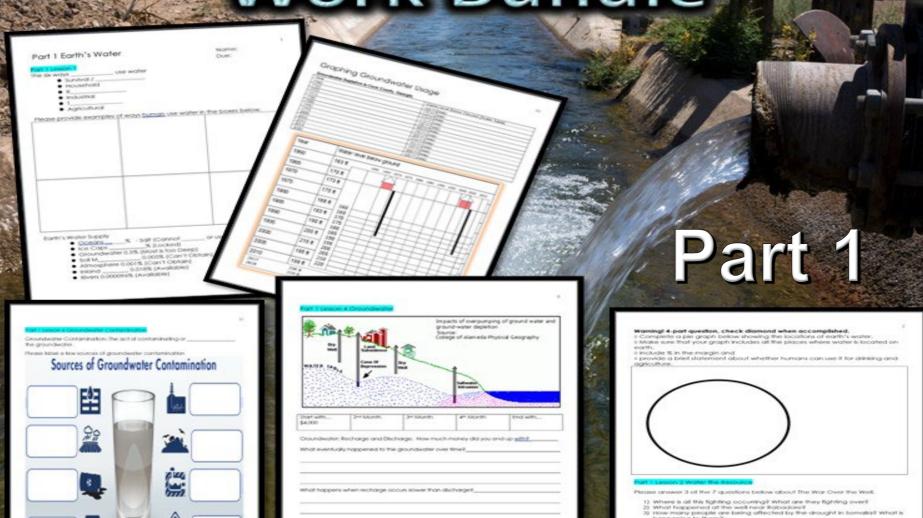


One clear, organized bundle guides students through notes, review, and assessments with ease.

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.

WATER ON EARTH Work Bundle

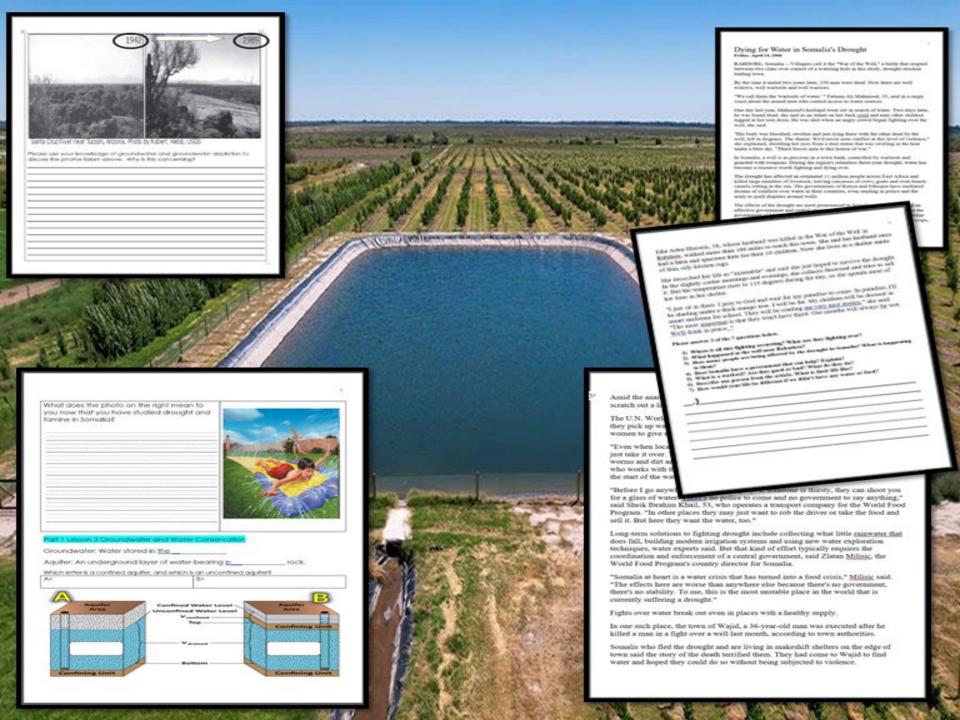


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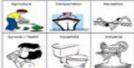
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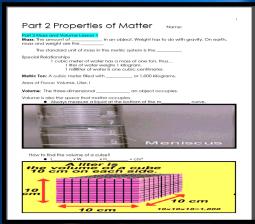
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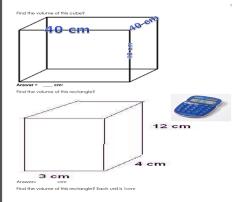
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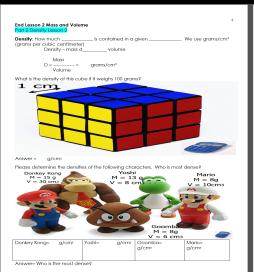
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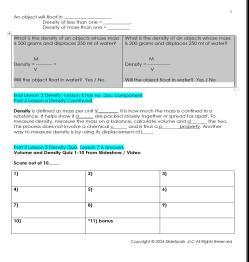
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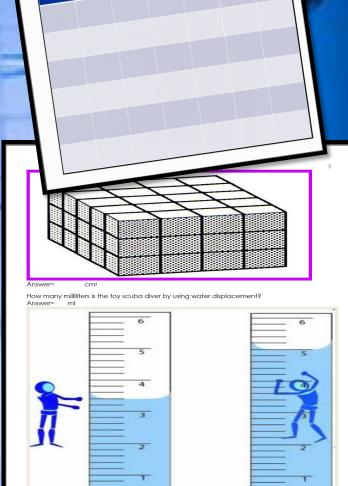
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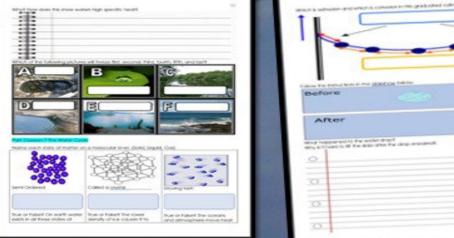
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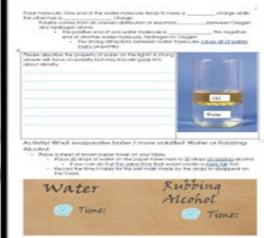
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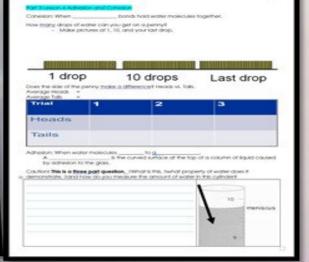
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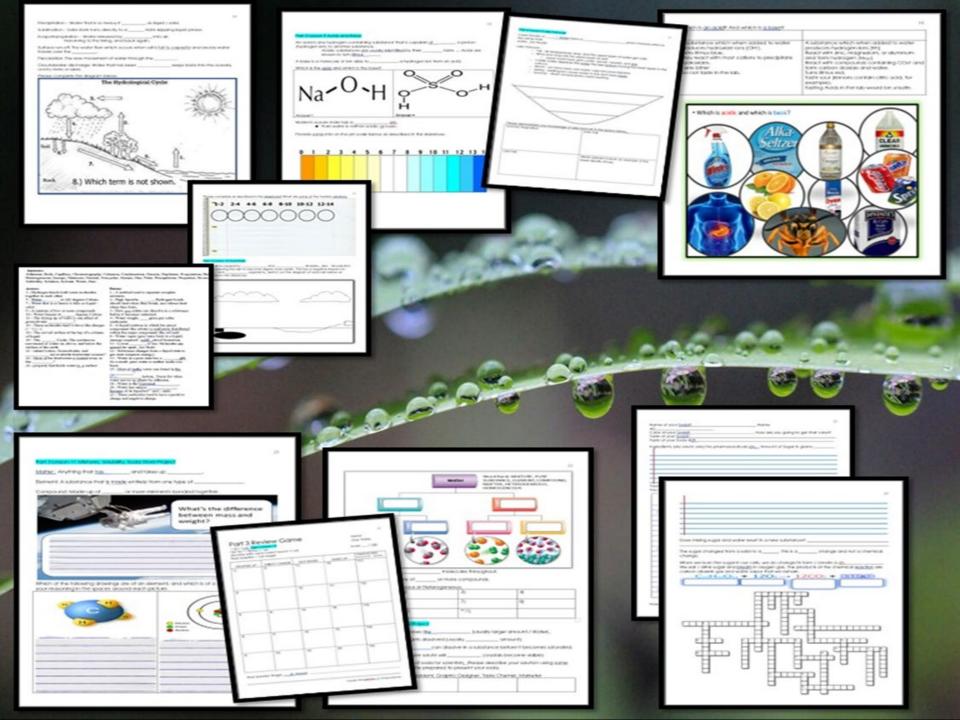
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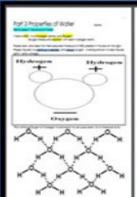








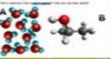










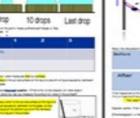


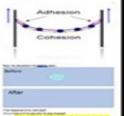
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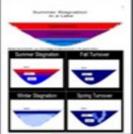


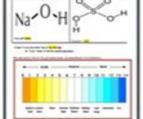
























Built-in Questions

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

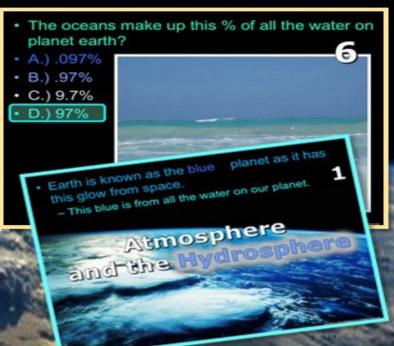
Each of the 11 Units concludes with a review quiz. Answers are provided in slideshow form so students can self assess. A blank template sheet is provided in the work bundle. Students can benefit from working together in small table groups with quiet communication. You can decide if you want to allow 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.



WATER ON EARTH Quiz Game

Part 1 This is the name for an underground layer of tor-bearing permeable rock. 8 Aquifer







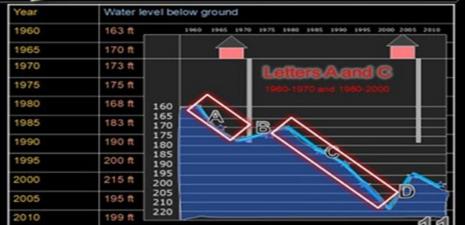


Whe rear saw the most discharge from the aquifer in Georgia

Year Water level below ground

1960

163 ft 1966 1979 1975 1990 1995 2000 2005 2010





- This is the slang term for hydraulic fracturing.
 - It's a procedure of creating fractures in rocks and injecting fluid into cracks to force them further open to extract fossil fuels.



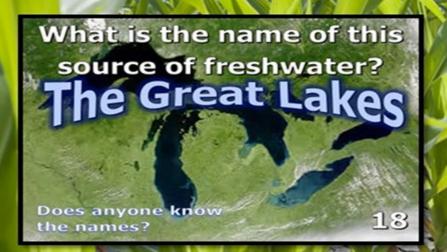
This was the name for a neighborhood in Niagara Falls.

This was the name for a neighborhood in Niagara Falls.

New York, infamous as the location of a 70-acre landfill that became the site of an enormous environmental that became the 1970s.

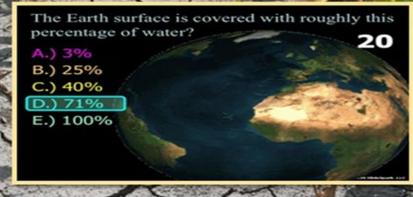
Love canal





 Name 5 ways to conserve water? Keep it simple and short. (1 point each)



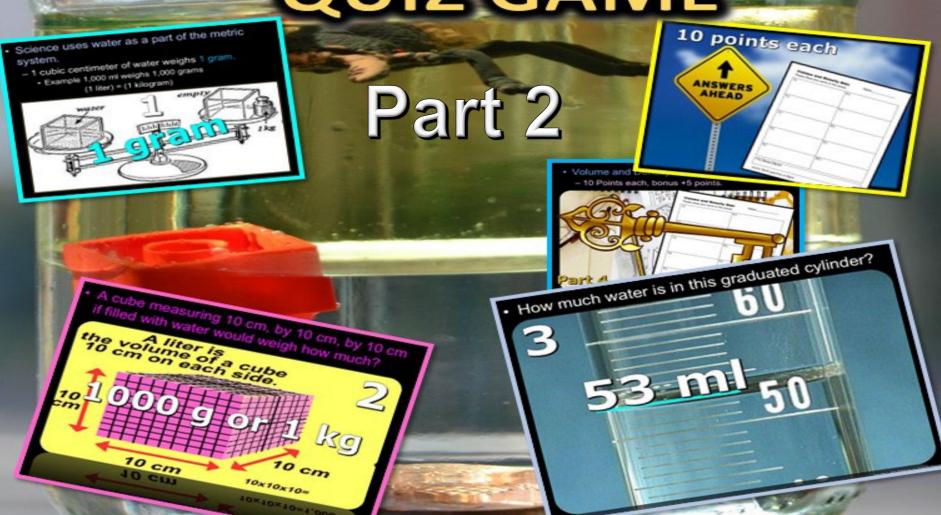


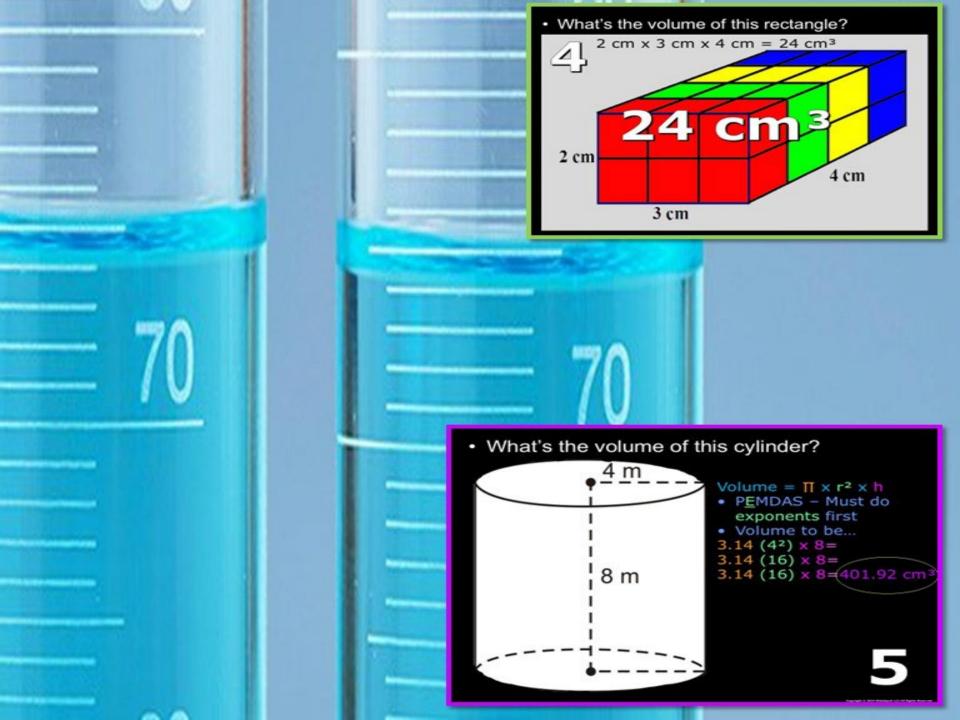


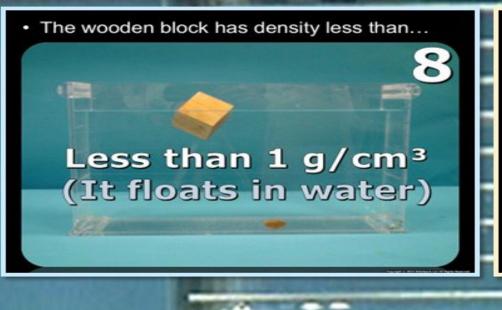


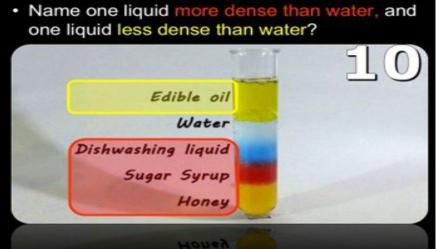
VOLUME & DENSITY

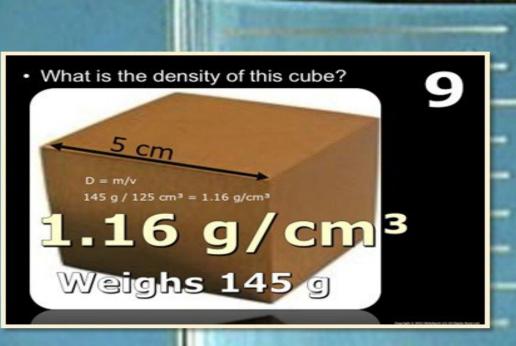
QUIZ GAME

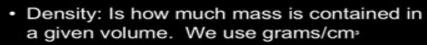












- (grams per cubic centimeter)

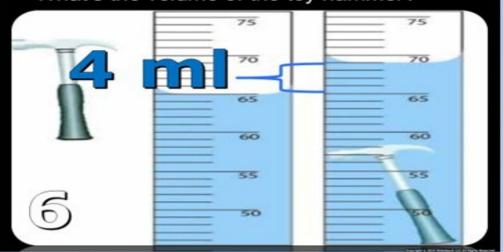
What is the formula for finding density?





Copyright © 2024 Shife Sport 11.

· What's the volume of the toy hammer?



- Density: Is how much mass is contained in a given volume. We use grams/cm³
 - (grams per cubic centimeter)

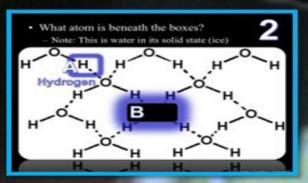
What is the formula for finding density?

- Density = Mass divided by volume

mass
D = ----- = grams/cm³
volume

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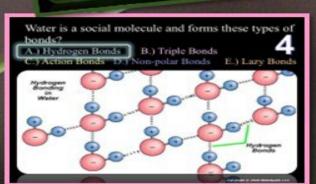
Properties of Water QUIZ GAME

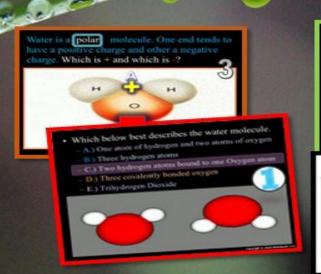


Part 3





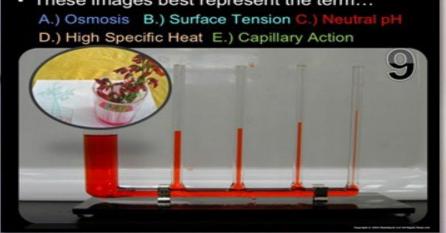








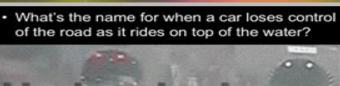






 What is the name of this warm water current that that travels NE along the United States toward Europe.



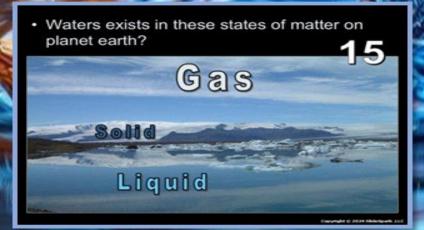


Hydroplaning Hydroplaning

Name the parts of the hydrologic cycle below?



Vater Cycle





The polarity of water pulls in other molecules and surrounds them with water molecules.

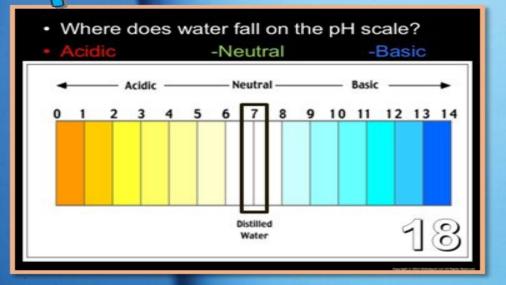
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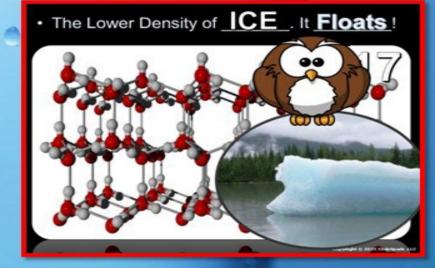
Solution: A liquid mixture in which the minor component (the solute) is uniformly distributed within the major component (the solvent).

Solid

Solution

Liquid





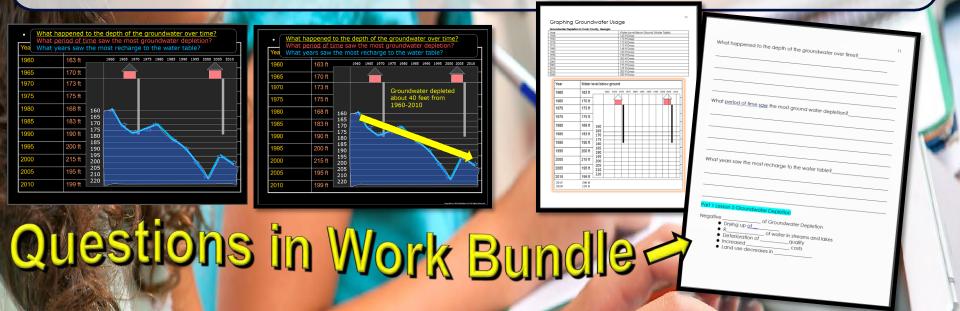
Activities / Labs

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



Built-in Questions

Each unit contains several built-in assessment questions 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.

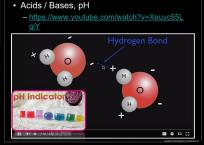


Built-in Video

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.

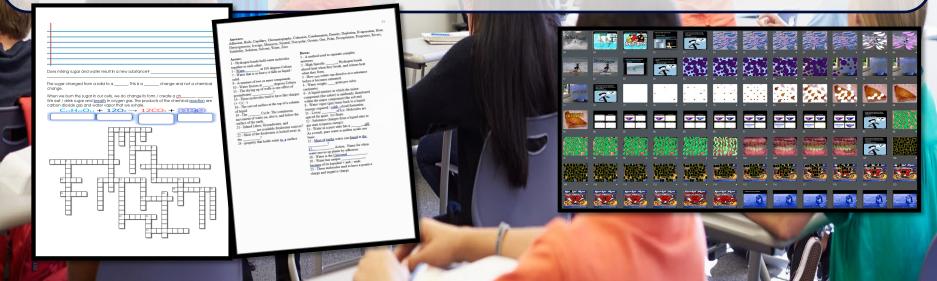






Games and Review

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 Water the R... Google Slides



Part 1 Lesson 1 Water on Ear... Google Slides



Part 1 Lesson 6 Contaminati... Google Slides



Part 1 Lesson 3 Water Cons... Google Slides



Part 1 Lesson 4 Groundwater Google Slides



Part 1 Lesson 8 Review Game Google Slides



Part 1 Lesson 5 Groundwate... Google Slides



Part 1 Lesson 7 Pollution an... Google Slides



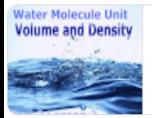
Part 2 lesson 4 Density ...

Google Slides



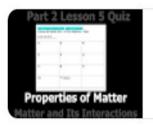
Part 2 lesson 1 Mass and...

Google Slides



Part 2 lesson 2 Calculati...

Google Slides



Part 2 lesson 5 Density ...

Google Slides



Part 2 lesson 3 Optional ...

Google Slides



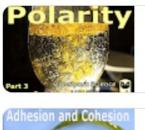
Part 2 lesson 6 Density ...

Google Slides



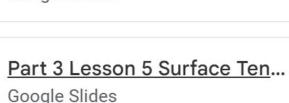


Part 3 Lesson 10 Acid Rain Google Slides



Part 3 Lesson 2 Polarity Lav... Google Slides

Google Slides







Part 3 Lesson 9 Acids and B... Google Slides



Part 3 Lesson 6 Specific Heat Google Slides

Part 3 Lesson 4 Adhesion C...



Part 3 Lesson 3 Oil Spill at S... Google Slides



Part 3 Lesson 8 Lake Turnov... Google Slides



Part 3 Lesson 1 Structure of ...



Part 3 Lesson 7 Water Cycle... Google Slides



Google Slides Part 3 Lesson 13 Quiz Wrap ...



Part 3 Lesson 14 Review Ga... Google Slides

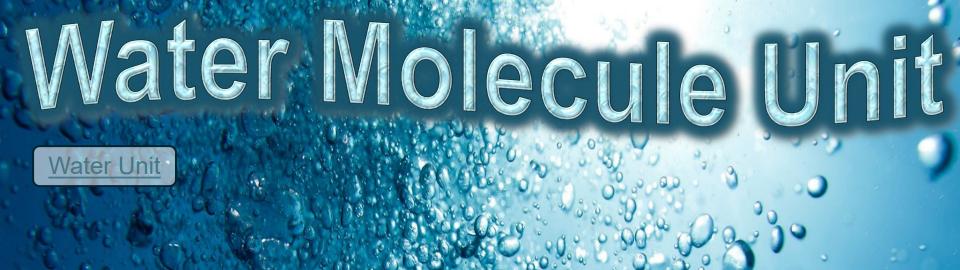
Part 3 Lesson 11 Solubility t...

Google Slides



Google Slides Part 3 Lesson 12 Soda Store Google Slides



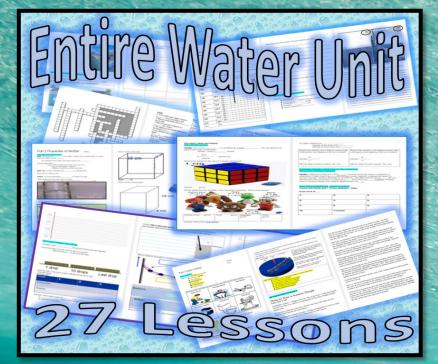


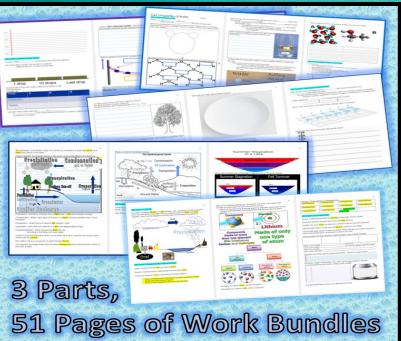
20 Lessons (5th-7th – Medium Difficulty) Part 1 has 8 Lessons and 21 Page Work Bundle, Part 2 has 5 Lessons and 5 Page Work Bundle, Part 3 has 14 Lessons and 25 Page Work Bundle

Water Unit Part 1 Download Ways Humans Use Water, Earth's Water Supply, Water % on Earth and Locations, Water Shortages, Case Study of a Well in Somalia controlled by Warlords, Groundwater, Ground Depletion vs Recharge, Negatives of Groundwater Depletion, Water Conservation, Aquifers, Types of Aquifers, Groundwater Pollution, Case Study of Love Canal Tragedy, Edwards Aquifer, Danger Under the Sand Groundwater Pollution Activity, Box Game Review, Crossword Puzzle, End Unit Assessment with Answer Version so Students can Self-Assess

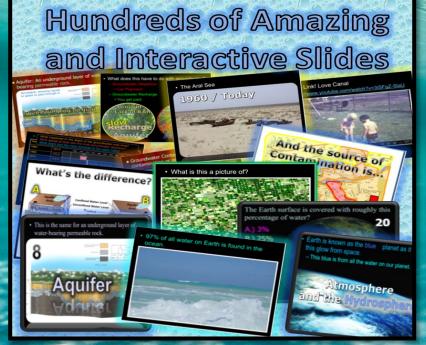
Water Unit Part 2 Download: Volume and Density: Mass, Metric Ton, Volume, Finding Volume of Objects and Measuring, Volume of Irregular Shaped Object by means of Water Displacement, Finding Density, Finding the Density of a Student Optional Activity, Going Rafting Activity, Volume and Density Quiz with Answer Version so students can Self-Assess

Water Unit Part 3: Properties of Water, The Water Molecule, Polar and Non-polar molecules, Volatility Activity with Alcohol vs. Water, Making a Lava Lamp Activity, Oil Spill at Sea Clean Up Project, Properties of Water, Cohesion, Adhesion, Water Drops on a Penny Activity, Capillary Action, Paper Chromatography Activity with filter paper, Capillary Action, Surface Tension, Swirly Milk Activity, High Specific Heat of Water, The Gulf Stream, Ocean Currents, Water Cycle, Terms of the Water Cycle, Condensation, Precipitation, Evaporation High Specific Heat, Ice Cube Tray Activity, Neutral pH, Acids, Bases, Acid Base Activity, Lower Density of Ice, Water is the Universal Solvent, Mixtures, Homogeneous Mixtures, Heterogeneous Mixtures, Mixture Activity, Solutions, Solvent, Solute, Supersaturation, Soda Store Project where Students Make and market and brand of Soda to Scientists, Box Game Review, Crossword Puzzle, End Unit Assessment with Answer Version so Students can Self-Assess









Part 1: Ways Humans Use Water, Earth's Water Supply, Water % on Earth and Locations, Water Shortages, Case Study of a Well in Somalia controlled by Warlords, Groundwater, Ground Depletion vs Recharge, Negatives of Groundwater Depletion, Water Conservation, Aquifers, Types of Aquifers, Groundwater Pollution, Case Study of Love Canal Tragedy, Edwards Aquifer, Danger Under the Sand Groundwater Pollution Activity

Nater Unit Part 1 Download



Part 1 Lesson 1 Water on Earth







Part 1 Lesson 4 Groundwater













Part 1 Work Bundle Printed





Part 1 Materials List

WATER ON EARTH







Interactive Slideshows



Groundwater Available Sheet





- Activity! Danger under the sand worksheet.
 - Please complete the worksheet for a grade.
 - Due at the end of class.





Activity! Reading the article about the war over

ise answer 3 of the 7 questions in detail after



- Video Link! Drought and - Observe how people in the video rely on water

 - http://www.youtube.com/watch?y=gOpURGIAsgY



Activity! Love Canal Article.

- Please read the article about Love Canal and



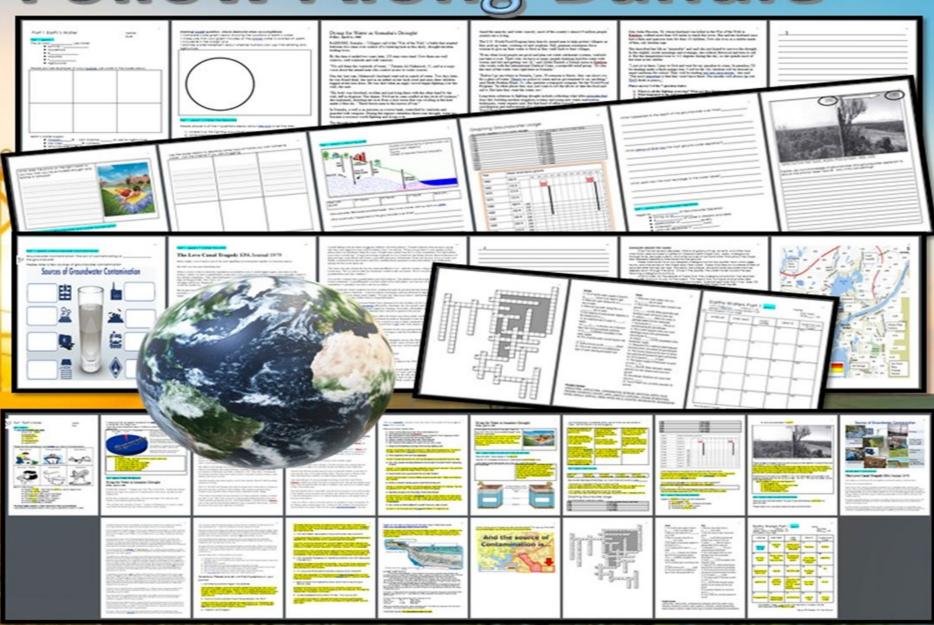


- Which is not a negative effects of groundwater depletion
 - A.) Drying up of wells
 - B.) Reduction of water in streams and lake





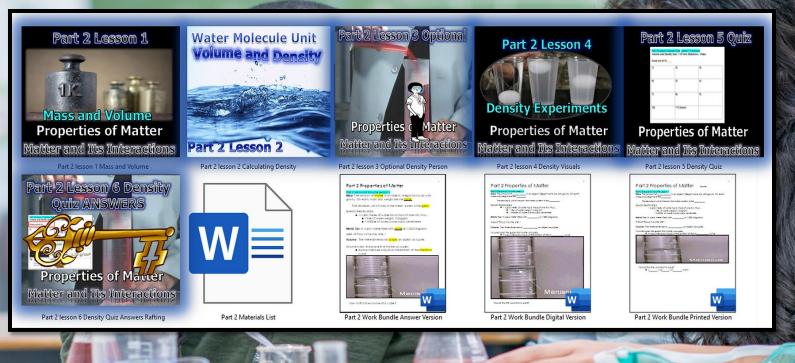
Follow Along Bundle



Readings, Video Links, Activities,



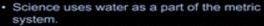
Part 2 Volume and Density: Mass, Metric Ton, Volume, Finding Volume of Objects and Measuring, Volume of Irregular Shaped Object by means of Water Displacement, Finding Density, Finding the Density of a Student Optional Activity, Going Rafting Activity



Volume and Density Unit

- Weight has to do with gravity.
 - On Earth, your mass and your weight are the





- 1 cubic centimeter of water weighs 1 gram.

. Example 1,000 ml weighs 1,000 grams (1 liter) = (1 kilogram)



· How much is Bowser by water displacement? Answer?

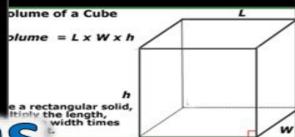




Name one liquid more dense than water, and one liquid less dense than water?



How do you find the volume of a cube? – Length x Width x Height = ____cm3



· Each box is a gram. A gram is the weight of one centimeter cubed full of water.



- Special Relationships
 - 1 cubic meter of water has a mass of one ton,
 - I liter of water weighs 1 kilogram.



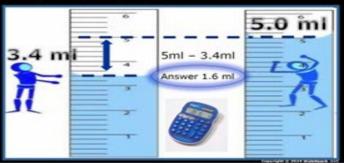
How much water is in this graduated cylinder?



6 Lessons

Interactive Slideshows · What is the density of this cube?

milliliters is the toy scuba diver by using water displacement?



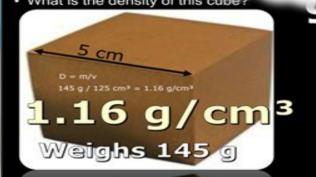
Density How much mass is contained in a We use grams/cm³

(grams per cubic centimeter)

Which two are and which is an intensive physical property?

A cube measuring 10 cm, by 10 cm, by 10 cm if filled with water would weigh how much?

A liter is



 Which object from the tank below has a density of more than one g/cm³



COST BOOKS A SEA

that's the Density of Wario? His Mass is 200g

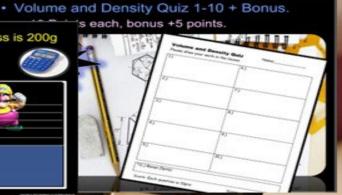
Density = 200g / 250cm3







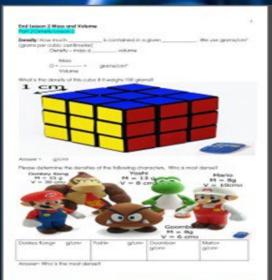




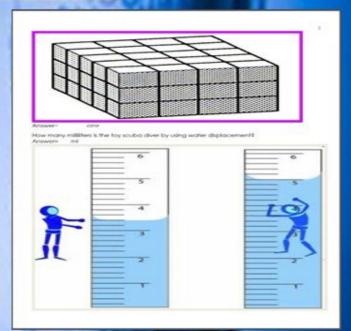
Follow Along Bundle Part 2 Properties of Matter Name | Part 2 Properties of Matter Nam











Activities, Assessments, Keys,

and more all built-int

- Demo: Magic Ice Cube? (Optional)
 - Teacher will place ice cubes into the two different containers filled with fluid.
 - Observe what happened and try to explain

Ethyl Alcohol has a density of .79 g/cm³ Alcohol



Water has a density of 1g/cm³

Materials less dense than ethyl alcohol will fi in it, while materials more dense will sink.

Which	one v	vill float i	n water?	Diet Coke

Brand of Soda	Sodium	Calories	Sugar	Mass	Volume. H2O
Coke	45mg	140	39g	388g	375 ml
Sunkist	70mg	190	50g	387g	375 ml
Mt. Dow	65mg	170	46g	387g	375 ml
THE CASE	Mary .			STOR.	1000
Sprite	60mg	140	38g	380g	375 ml
					375 ml

- Demonstration: "Magic Sait?
 - Teacher to place eggs into two clear containers filled with water.
 - Next teacher adds salt to one of the container stirring periodically.
 - What happened? Why?

Density of Water

Tap Water Increased

Less dense from the water

High

M

Med Salt

- Layering liquids with different densities.
- Use a clear container and add the following in this order....
 - Corn Syrup
 - Water (food Coloring)
 - Vegetable Oil

Note: When pouring avoid getting on the side.



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tional Worksheet. Density A-L

- Density: Is how much mass is contained in a given volume. We use grams/cm²
 - (grams per cubic centimeter)

What is the formula for finding density?



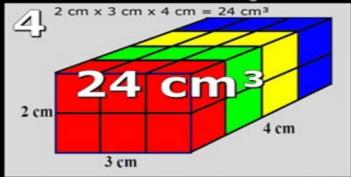


- · Activity (Optional) Finding density.
 - Go back to the irregular shaped objects them in grams and determine their dens
 - . Which objects will float, and which will sink
 - · Remember your answer is in grams / cm

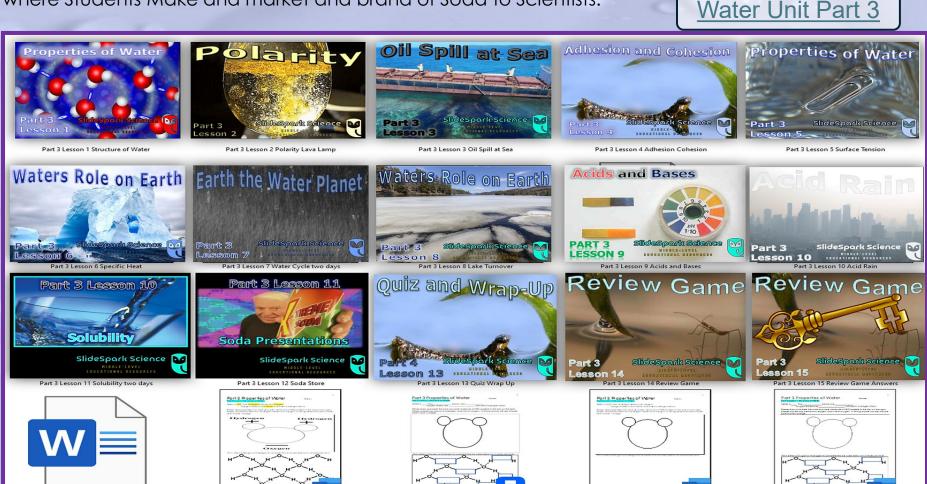


Eine the district of the repairery objects between A. Flesses are modified at a fair and fair accordance and marketonic to find volume. Become of the control of the second of the secon

· What's the volume of this rectangle?



Part 3: Properties of Water, The Water Molecule, Polar and Non-polar molecules, Volatility Activity with Alcohol vs. Water, Making a Lava Lamp Activity, Oil Spill at Sea Clean Up Project, Properties of Water, Cohesion, Adhesion, Water Drops on a Penny Activity, Capillary Action, Paper Chromatography Activity with filter paper, Capillary Action, Surface Tension, Swirly Milk Activity, High Specific Heat of Water, The Gulf Stream, Ocean Currents, Water Cycle, Terms of the Water Cycle, Condensation, Precipitation, Evaporation High Specific Heat, Ice Cube Tray Activity, Neutral pH, Acids, Bases, Acid Base Activity, Lower Density of Ice, Water is the Universal Solvent, Mixtures, Homogeneous Mixtures, Heterogeneous Mixtures, Mixture Activity, Solutions, Solvent, Solute, Supersaturation, Soda Store Project where Students Make and market and brand of Soda to Scientists.

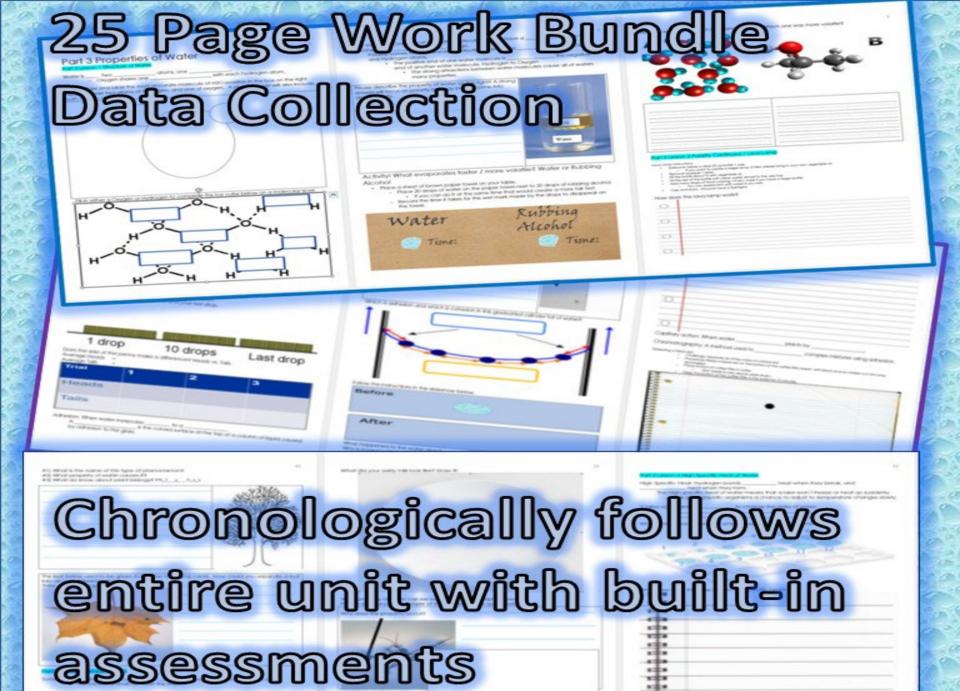


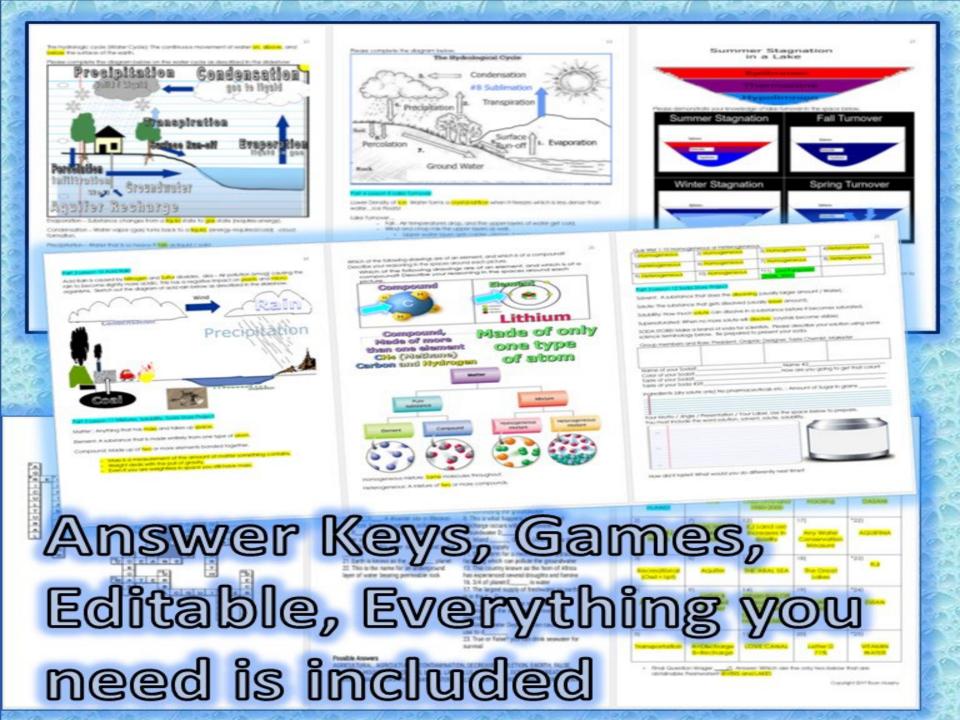
Part 3 Materials List



Full of hands-on activities







Curriculum Guide

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



=Easier,



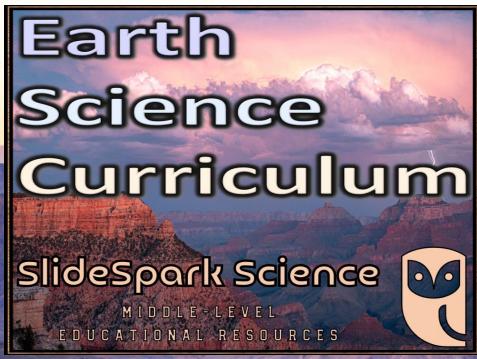
= More difficult,

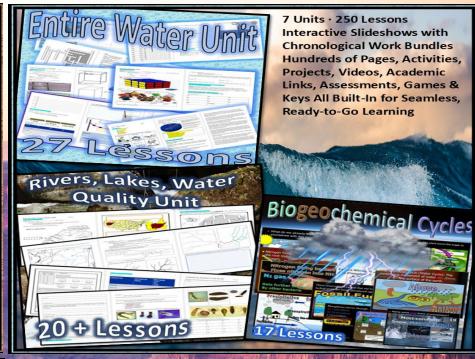


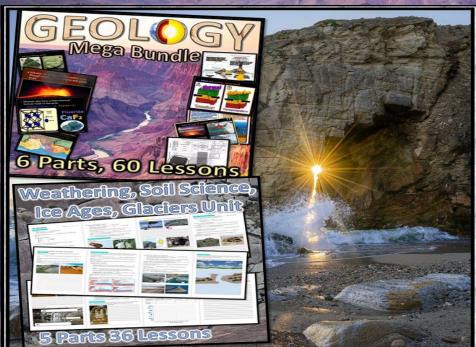
=Most difficult

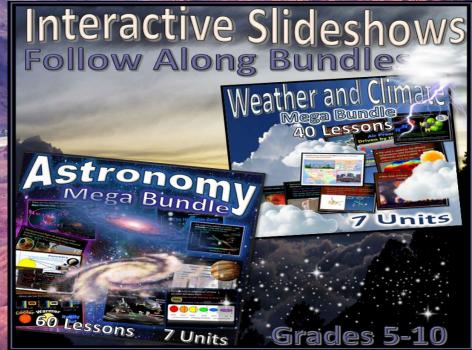
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Earth Science Units	Daily	Intended	
	Lessons	Grade	
Geology Topics Unit	60 Lessons	6-8 medium	MORE DIFFICULT
		difficulty	
Weather and Climate Unit	40 Lessons	6-8 medium	MORE DIFFICULT
		difficulty	
Astronomy Unit	60 Lessons	6-8 medium	MORE DIFFICULT
		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	Most Difficult

Life Science Curriculum







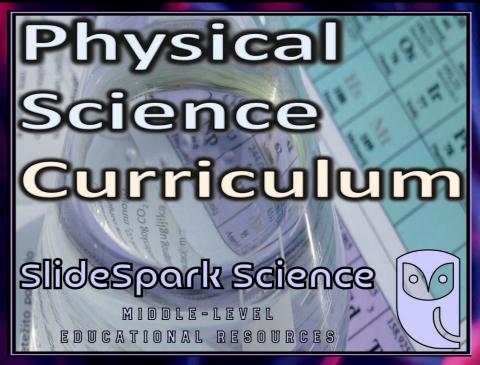


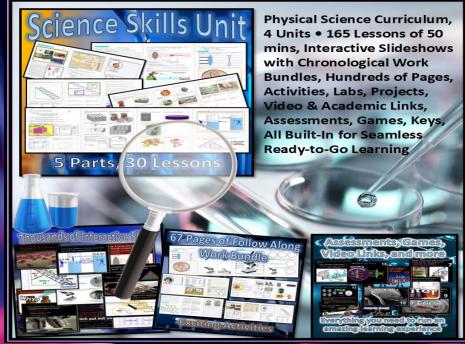
Physical Science	Daily Lessons	Intended Grade	
Laws of Motion and Machines Unit	33 Lessons	8-10 most difficult	Most Difficult
Matter Energy and the Environment	58 Lessons	7-10 medium difficulty	MORE
Atoms and Periodic Table Unit	44 Lessons	8-10 most difficult	Most Difficult
Science Skills Unit	30 Lessons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

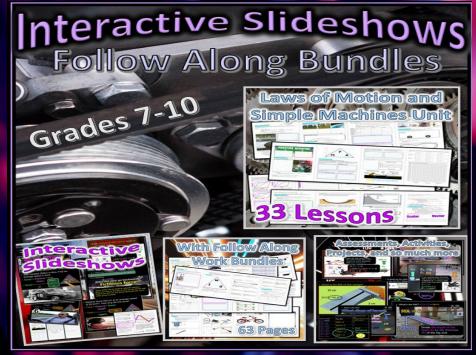
Physical Science Curriculum



Entire SlideSpark Science Curriculum









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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.

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Thank you for your time and interest in our Science curriculum. We strive to provide students with engaging and informative lessons that will spark their curiosity and encourage scientific exploration. Should you have any questions or concerns, please do not hesitate to contact us. Thank you again for considering our curriculum, and we wish you all the best in your educational journey.

Sincerely,

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MIDDLE-LEVEL EDUCATIONAL RESOURCES



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