

WATER ON EARTH

The Earth surface is covered with roughly this percentage of water?

20

- A.) 3%
- B.) 25%
- C.) 40%
- D.) 71%**
- E.) 100%

- **Aquifer:** An underground layer of water-bearing permeable rock.

Permeable: Allowing liquids or gases to pass through it.

Wells pumping up groundwater

Impermeable

Learn more about water use at...

- This is the name for an underground layer of water-bearing permeable rock.

8

Aquifer

- These are the areas of the world that struggle everyday from drought and famine.

The Hydrosphere and Atmosphere supplying water to the Biosphere

Undernourished World Population

Called the
Cryosphere

8 Lessons

Rivers

Lakes

Clouds

Oceans

71% of Earth is covered in water

Living Things

Ice Caps

- Water is essential for life, and all organisms depend on it.

Atmosphere

Biosphere

Hydrosphere

Lithosphere

Interactive Slideshows

• What does this have to do with groundwater?

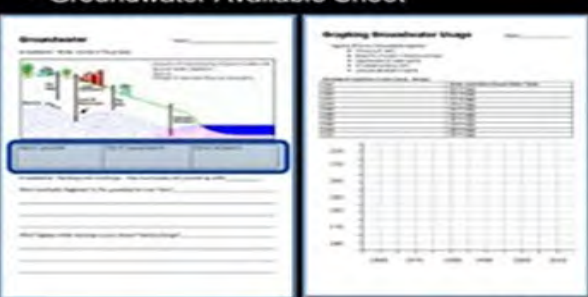
- Groundwater Depletion
- Car Payment
- Groundwater Recharge
- You get paid

-\$5000

+\$1500



• 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 the well in Somalia.

- Please answer 3 of the 7 questions in detail after reading the article.



• Video Link! Drought and...

- Observe how people in the video rely on water.
- <http://www.youtube.com/watch?v=qOpURGLAsqY>



• Activity! Love Canal Article.

- Please read the article about Love Canal and answer selected questions in your journal.



The 1942 picture shows mesquite and cottonwood trees along the river. The same area 47 years later shows that the trees have disappeared. Water data from local wells indicate that the groundwater levels have declined more than 100 feet due to pumping. The use of groundwater / pumping appears to be the reason for the loss of trees.



• Which is not a negative effects of groundwater depletion

- Drying up of wells
- Reduction of water in streams and lakes
- Deterioration of water quality
- Increased pumping costs
- Land use decreases in quality



Follow Along Bundle

A collage of educational worksheets and diagrams related to environmental science, specifically focusing on water resources and groundwater contamination. The materials are arranged in a grid-like fashion, with a large image of the Earth in the center.

Top Row:

- Part 1: Earth's Water** - A worksheet with a table for tracking water sources and a diagram of a water cycle.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.

Second Row:

- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
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- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.

Third Row:

- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.

Fourth Row:

- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.

Bottom Row:

- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.
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- Design for Water in Humana's Design** - A worksheet with a diagram of a water cycle and a table for tracking water usage.

Central Image: A large, realistic image of the Earth, showing the Western Hemisphere, centered on the Atlantic Ocean.

Other Notable Elements:

- Sources of Groundwater Contamination** - A diagram showing various sources of contamination like factories, farms, and landfills.
- The Love Canal Tragedy EPA Journal 1979** - A document detailing the environmental disaster at the Love Canal.
- Design for Water in Humana's Design** - Multiple worksheets with diagrams and tables related to water management.
- Design for Water in Humana's Design** - Multiple worksheets with diagrams and tables related to water management.

Readings, Video Links, Activities, Assessments, all Built-in

- Reading with video: the Aral Sea.

– <http://www.bbc.co.uk/news/resources/idt-a0c4856a-1019-4937-96fd-6714d70a48f7>



- Activity! Water Pollution (Follow Up)

- Did the color of the water change as a result of the trash?
- Use a white background to compare the two.
- Which was the control group, and which was the experimental group?
- Why is a control group important?



– signs of high contamination.



- Groundwater contamination can travel with the water as it travels under the ground naturally.



- Video Link! Water Conservation Tips.
- You can pull out your homework right now if you choose.
- <http://www.youtube.com/watch?v=4MDLpVHY8LE>



- Groundwater: Water stored in the ground



- Aquifers / Groundwater pollution sources
- <https://www.youtube.com/watch?v=qusnVOHTG8>



- Earth is known as the blue planet as it has this glow from space.
- This blue is from all the water on our planet.

1

Atmosphere
and the Hydrosphere



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

[Water Unit Part 1 Download](#)



Part 1 Lesson 1 Water on Earth



Part 1 Lesson 2 Water the Resource



Part 1 Lesson 3 Water Conservation



Part 1 Lesson 4 Groundwater



Part 1 Lesson 5 Groundwater Depletion



Part 1 Lesson 6 Contamination



Part 1 Lesson 7 Pollution and Wrap Up



Part 1 Lesson 8 Review Game



Part 1 Lesson 9 Review Game Answers



Part 1 Materials List



Part 1 Work Bundle Answers



Part 1 Work Bundle Printed

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.

• Earth's Water Supply

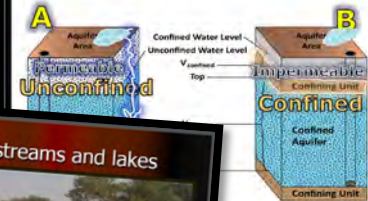


• Activity / Homework "Water Usage"

- I am expecting one strong paragraph or large bullet list in your journal describing your water usage from right now until tomorrow.
- Where you used the water?
- Approximately how much? (gallons / liters)
- Graph your usage if you can.



What's the difference?



• Reduction of water in streams and lakes



• Groundwater Contamination: The act of contaminating or polluting the groundwater.



● Oceans 97.3%

● - Salt (Cannot drink or use for Agriculture) ☹️



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Part 1 Earth's Water

Name: _____
Date: _____

Part 1 Lesson 1

The six ways _____ use water:

- Survival / _____
- Household / _____
- R. _____
- Industrial / _____
- T. _____
- Agricultural / _____

Please provide examples of ways human use water in the boxes below.

The Water Supply

- Oceans _____ % - Salt (Cannot _____ or use for Agriculture)
- Ice Caps _____ % (Frozen)
- Groundwater 0.6% (Most is too Deep)
- Soil M. _____ 0.005% (Can't Obtain)
- Atmosphere 0.001% (Can't Obtain)
- Inland _____ 0.015% (Available)
- Rivers 0.00006% (Available)

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.

- Which of the plants in this study was given the most saltwater?



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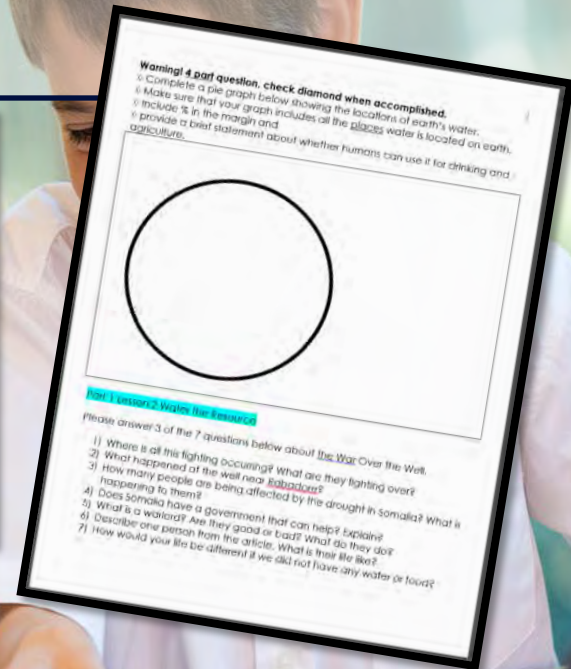
- Which of the plants in this study was given the most saltwater?



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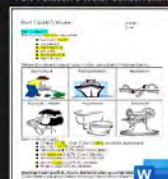
Next Slide

slideshow supports
Work Bundle



Lesson Planning

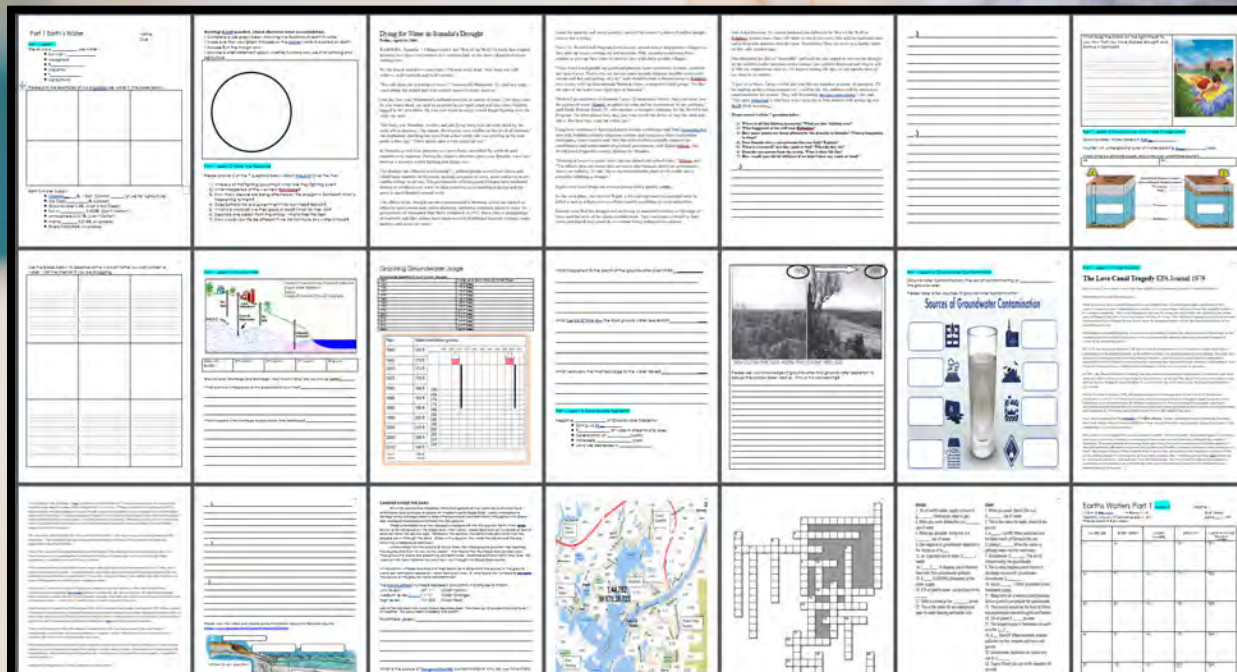
Daily lessons space exciting hands-on activities, red slide notes, video and academic links, projects, simulations, readings, built-in quizzes, and review opportunities throughout the slideshows. A typical day may have many different learning styles being targeted. Daily lesson planning becomes advancing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



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

Follow Along Work Bundle

Each science unit includes a single printable work bundle that stays with students from start to finish. Just print and distribute on day one—no daily handouts needed. The bundle follows the unit chronologically and includes everything: fill-in notes, diagrams, quizzes, lab activities, with follow up questions and much more. It's used daily, supports the end-of-unit quiz game, and is handed in for an additional assessment. Answer keys, some writable .pdf versions, and digital versions are also included for flexible classroom use..



WATER ON EARTH

Work Bundle

Part 1 Earth's Water

- How do we use water?
- Household
 - Industrial
 - Agricultural

Please provide examples of ways humans use water in the boxes below.

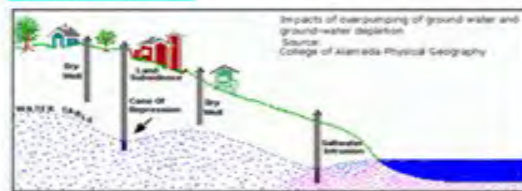
Earth's water supply

- Oceans: 97% (Salt)
- Ice: 2.5% (Frozen)
- Groundwater: 0.5% (Most is too deep)
- Soil M.: 0.005% (Can't drink)
- Atmosphere: 0.001% (Can't drink)
- Rivers: 0.00001% (Available)

Graphing Groundwater Usage



Part 2 Sources of Contamination



Start with \$4,000

1st Month

2nd Month

3rd Month

4th Month

End with

Groundwater Recharge and Discharge. How much money did you end up with?

What eventually happened to the groundwater over time?

What happens when recharge occurs slower than discharge?

Warning! 4-part question, check diamond when accomplished.

- Complete a pie graph below showing the locations of earth's water.
- Water use that your graph includes all the places where water is located on earth.
- Include % in the margin and
- provide a brief statement about whether humans can use it for drinking and agriculture.



Part 3 Lesson 3 Water Wars

Please answer 3 of the 7 questions below about the War Over the Well.

- 1) Where is all this fighting occurring? What are they fighting over?
- 2) What happened at the well near Kitale?
- 3) How many people are being affected by the drought in Somalia? What is happening to them?
- 4) Does Somalia have a government that can help? Explain.
- 5) What is a warlord? Are they good or bad? What do they do?
- 6) Describe one person from the article. What is their life like?
- 7) How would your life be different if we did not have dry wells or floods?

[illegible]

Negative of Groundwater Depletion

[illegible][illegible][illegible][illegible][illegible]

AGRICULTURE, AGRICULTURAL COMMUNITIES, BUSINESS

1.10 = 10 pts. * = Series = 1 pt.
(Secretly write out in correct space +1 pt)
First Question = 1 of words

WATER USE	EVERY DROP
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13	81	981
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Wattmeters

DATE _____ / _____ / _____

REF	NAME (Year)
1	...
2	...
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100	...

WATER USE	EVERY DROP	SUDDY BLAZING	DRINK-UP	NATURE SHALE H2O Bywater - 2000
13	8	11	16	**21
20	7	12	17	**22
30	6	13	18	**23
40	5	14	19	**24
50	4	15	20	**25

Post-Question Review: 13. Answer

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 103–110

Review Games / Assessments

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



Earth's Waters Part 1

1-10 = 10 pts
Secretly write out in correct space + 1 pt
Final Question = 3 pt bonus

NAME: _____

Due: Today
Score: _____ / 100

WATER USE	EVERY DROP	MUDDY WATERS	DRINK IT
1) _____	6) _____	11) _____	16) _____
2) _____	7) _____	12) _____	17) _____
3) _____	8) _____	13) _____	18) _____
4) _____	9) _____	14) _____	19) _____
5) _____	10) _____	15) _____	20) _____

Final Question: Write down the Answer which are the only two below that are: _____

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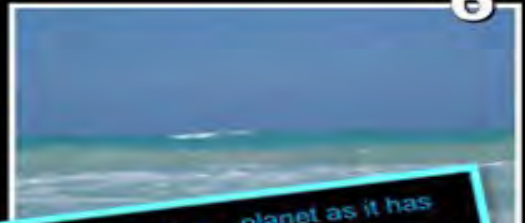
WATER ON EARTH

Quiz Game

- The oceans make up this % of all the water on planet earth?

- A.) .097%
- B.) .97%
- C.) 9.7%
- D.) 97%

6



- Earth is known as the blue planet as it has this glow from space.
- This blue is from all the water on our planet.

1

Atmosphere
and the Hydrosphere

This is the name for an underground layer of water-bearing permeable rock.

8

Aquifer

- Name some sources of usable and obtainable freshwater on planet earth? Two Points each
- Rivers, Inland Lakes, Groundwater

7



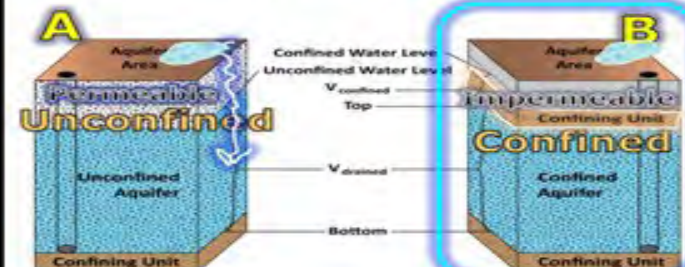
+2pt

+2pt

+2pt

Which one is **confined**?

9



- Name this sea in Kazakhstan that has vanished as a result of poor water planning.

Today

13

- Which is not a negative effects of groundwater depletion

- A.) Drying up of wells
- B.) Reduction of water in streams and lakes
- C.) Deterioration of water quality
- D.) Increased pumping costs
- E.) Land use decreases in quality

12

What years saw the most discharge from the aquifer in Georgia?



11

Name 3 sources of groundwater contamination?



14

- 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.

16

Fracking

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 disaster in the 1970s.

15

Love canal



• Which is recharge and which is discharge to the aquifer?



2

Survival / Health

4

Agricultural

Transportation 5

What is the name of this
source of freshwater?

The Great Lakes

Does anyone know
the names?

18

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

**WATER
CONSERVATION
AROUND THE HOUSE**

Let's Share!

17

The Earth surface is covered with roughly this
percentage of water?

20

- A.) 3%
- B.) 25%
- C.) 40%
- D.) 71%**
- E.) 100%

- Which is not a source of the water on
planet Earth?

19



- Which are the only two below that are
obtainable Freshwater?



Activities / Labs

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

Demonstration

-Where's the water?

- Teacher fills 5 gallon bucket which represents all of the water on earth.

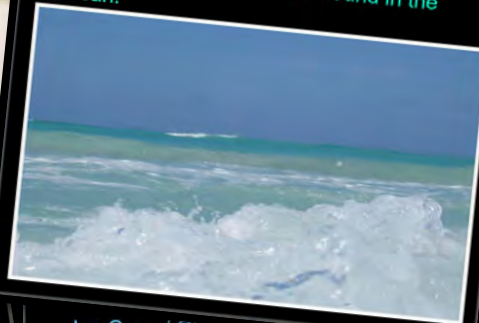


- The bucket represents
 - Oceans
 - Salt Lakes
 - Rivers
 - Ice Caps / Glaciers
 - Atmosphere
 - Groundwater
 - Freshwater Lakes

The Good Stuff

↓
- Potable Water (Useable water available for humans after pollution and contamination)

- 97% of all water on Earth is found in the ocean.



- Ice Caps / Glaciers .5 cups
- Groundwater .25 table spoons
- Freshwater Lakes .15 table spoons
- Salt Lakes 3 drops
- Atmosphere .5 drops
- Rivers

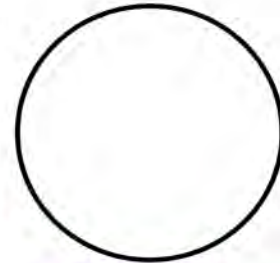


Earth's Water Supply

- Oceans _____ % - Salt (Cannot _____ or use for Agriculture)
- Ice Caps _____ % (Locked)
- Groundwater 0.5% (Most is too Deep)
- Soil M. _____ 0.005% (Can't Obtain)
- Atmosphere 0.001% (Can't Obtain)
- Inland _____ 0.018% (Available)
- Rivers 0.000096% (Available)

Warning! 4 part question, check diamond when accomplished.

- Complete a pie graph below showing the locations of earth's water.
- Make sure that your graph includes all the places water is located on earth.
- Include % in the margin and
- provide a brief statement about whether humans can use it for drinking and agriculture.



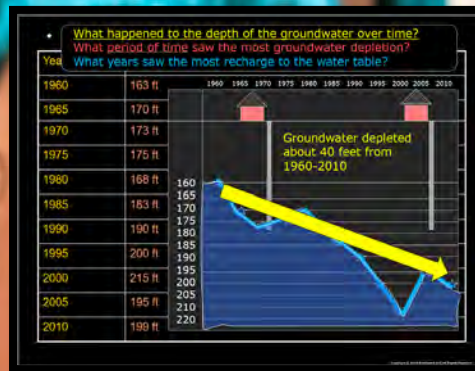
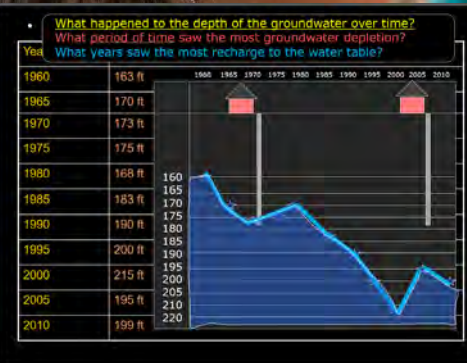
Part 1 Lesson 2 Water The Resource

Please answer 3 of the 7 questions below about the War Over the Well.

- 1) Where is all this fighting occurring? What are they fighting over?

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.



What happened to the depth of the groundwater over time?

What period of time saw the most groundwater depletion?

What years saw the most recharge to the water table?

What I Learned's Groundwater Depletion

Negative

- Drying up of _____ of Groundwater Depletion
- _____ of water in streams and lakes
- Deterioration of _____ quality
- Increased _____ costs
- Land use decreases in _____

Questions in Work Bundle →

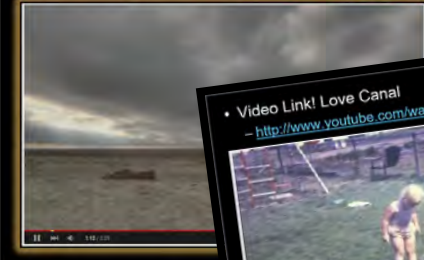
Built-in Video Links

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.

- Video Link! (Optional) Groundwater, The Hidden Source of Life
– <http://www.youtube.com/watch?v=Iht9WBBXepA>

- Video Link! Drought and Famine in Africa.
– Observe how people in the video rely on water.
– <http://www.youtube.com/watch?v=qOpURGIAsqY>

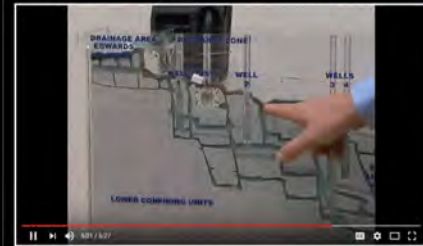
- Video Link! Worlds Water Crisis (18 min)
– <https://www.youtube.com/watch?v=C65iqOSCZQY> (Optional)

- Video Link! The Aral Sea.
– <https://www.youtube.com/watch?v=FzvwEW1FHc60>

- Video Link! Love Canal
– http://www.youtube.com/watch?v=3iSFqZ_SlaU

- Video Link! (Optional) UNICEF, Drought and Famine (2007)
– <http://www.youtube.com/watch?v=CAEa68reTyo&feature=related>

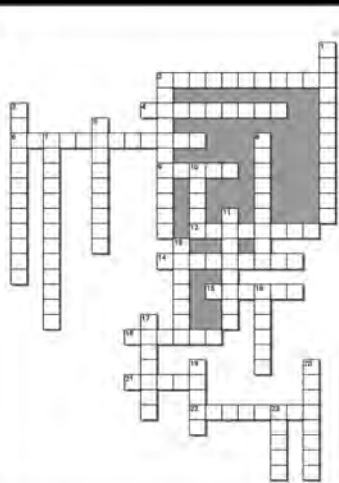
- Video Link! Water Conservation Tips.
– You can pull out your homework right now if you choose.
– <http://www.youtube.com/watch?v=4MDLpVHY8LE>

- Video Link! Worlds Water
– <https://www.youtube.com/watch?v=Irs159O9Q1Q&t=93s>

- Aquifers / Groundwater pollution sources.
– <https://www.youtube.com/watch?v=quqinVOHTqc>


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.



Across

2. 5% of earth's water supply is found in _____ (most is too deep to get)
4. When you wash dishes that is a _____ use of water
6. When you go water skiing this is a _____ use of water
9. One negative of groundwater depletion is the drying up of _____
12. An important use of water is _____ health
14. _____ A disaster use in Phoenix New York from groundwater pollution
15. _____ (Available) of the water supply
16. 97% of earth's water can be found in the _____
21. Earth is known as the _____ planet
22. This is the name for an underground layer of water bearing permeable rock

Possible Answers

AGRICULTURAL, AGRICULTURAL, CONTAMINATION, DECREASE, DEFLECTION, EARTH, FALSE, FLOODING, HOUSEHOLD, ICECAPS, LAKES, LANDFILLS, (OVER)CANNAL, OCEANS, RECREATIONAL, RIVERS, SOMALIA, SURVIVAL, URBAN, WATER, WELLS, AQUIFER, GROUNDWATER, GROUNDWATER

Down

1. When you water plants this is a _____ use of water
2. This is the name for water stored in the ground
3. _____ Run-Off, when pesticides and fertilizers wash off farms in the rain
5. Lately _____ when the waste in garbage dumps into the waterways
7. Groundwater _____ The act of contaminating the groundwater
8. This is what happens when too much discharge occurs with groundwater: Groundwater _____
10. Most _____ (Available) is this freshwater supply
11. Slang term for a method called hydraulic fracturing which can pollute the groundwater
13. This country known as the horn of Africa has experienced several droughts and famine
16. 2/4 of planet _____ is water
17. The larger supply of freshwater on earth is in the _____
19. () _____ Run-Off. When excessive waters pollute into the streams and rivers and spread
20. Groundwater Depletion can cause land _____
23. True or False? you can drink seawater for survival

- It also kills plants and contaminates the soil.



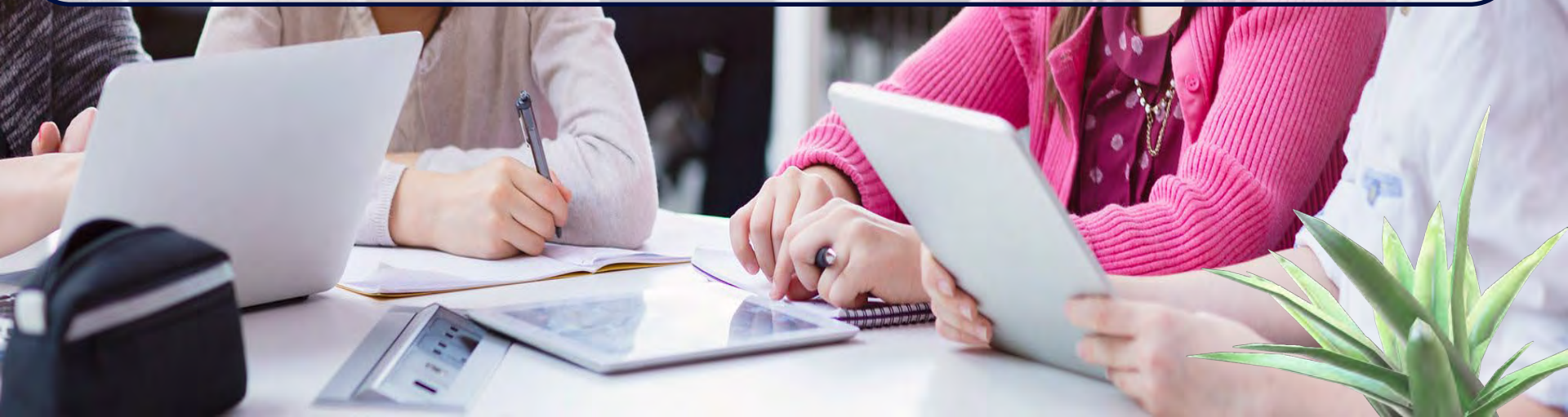
- It also kills plants and contaminates the soil.



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



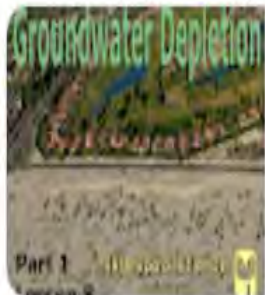
Part 1 Lesson 4 Groundwater

Google Slides



Part 1 Lesson 8 Review Game

Google Slides



Part 1 Lesson 5 Groundwater...

Google Slides



Part 1 Lesson 7 Pollution an...

Google Slides

Water Molecule Unit

Water Unit

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

[Water Unit Part 1 Download](#)



Part 1 Lesson 1 Water on Earth



Part 1 Lesson 2 Water the Resource



Part 1 Lesson 3 Water Conservation



Part 1 Lesson 4 Groundwater



Part 1 Lesson 5 Groundwater Depletion



Part 1 Lesson 6 Contamination



Part 1 Lesson 7 Pollution and Wrap Up



Part 1 Lesson 8 Review Game



Part 1 Lesson 9 Review Game Answers



Part 1 Materials List



Part 1 Work Bundle Answers



Part 1 Work Bundle Printed

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

Part 2 Lesson 1

Mass and Volume
Properties of Matter
Matter and Its Interactions

Part 2 lesson 1 Mass and Volume

Water Molecule Unit
Volume and Density

Part 2 Lesson 2

Part 2 lesson 2 Calculating Density

Part 2 Lesson 3 Optional

Properties of Matter
Matter and Its Interactions

Part 2 lesson 3 Optional Density Person

Part 2 Lesson 4

Density Experiments
Properties of Matter
Matter and Its Interactions

Part 2 lesson 4 Density Visuals

Part 2 Lesson 5 Quiz

Properties of Matter
Matter and Its Interactions

Part 2 lesson 5 Density Quiz

Part 2 Lesson 6 Density Quiz ANSWERS

Properties of Matter
Matter and Its Interactions

Part 2 lesson 6 Density Quiz Answers Rafting

Part 2 Materials List

Part 2 Work Bundle Answer Version

Part 2 Work Bundle Digital Version

Part 2 Work Bundle Printed Version

[Water Unit Part 2 Download](#)

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.

Water Unit Part 3



Part 3 Lesson 1 Structure of Water



Part 3 Lesson 2 Polarity Lava Lamp



Part 3 Lesson 3 Oil Spill at Sea



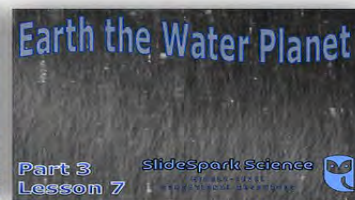
Part 3 Lesson 4 Adhesion Cohesion



Part 3 Lesson 5 Surface Tension



Part 3 Lesson 6 Specific Heat



Part 3 Lesson 7 Water Cycle two days



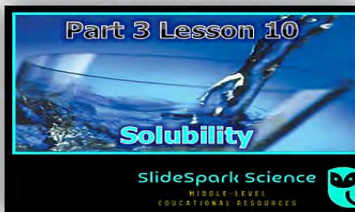
Part 3 Lesson 8 Lake Turnover



Part 3 Lesson 9 Acids and Bases



Part 3 Lesson 10 Acid Rain



Part 3 Lesson 11 Solubility two days



Part 3 Lesson 12 Soda Store



Part 3 Lesson 13 Quiz Wrap Up



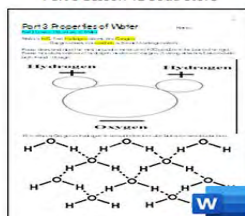
Part 3 Lesson 14 Review Game



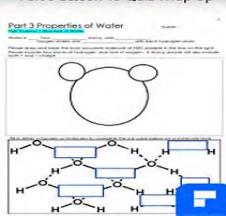
Part 3 Lesson 15 Review Game Answers



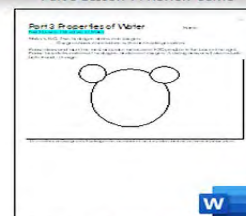
Part 3 Materials List



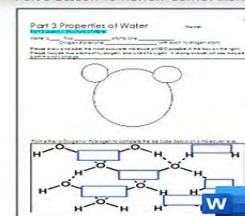
Part 3 Work Bundle Answers



Part 3 Work Bundle pdf Writable



Part 3 Work Bundle Print with Notes



Part 3 Work Bundle Print

Entire Water Unit

Full of hands-on activities

WATER ON EARTH

Bluish
Purple
Reddish
Orange
Yellowish
Original
Black Dot

Least Dense
↑
Most Dense

How Swirly...
Surface Tension
Broken

If you can do it at the same time that would make the drops disappear on the towel.
Water
Rubbing Alcohol

Activity! (Optional)
Water level higher
Water level higher

Surface Tension
Cohesive Forces

Volume and Density Unit

Group Roles
Marketer
Graphic Designer
President
Tutor Chemist

Hundreds of Amazing and Interactive Slides

Properties of Water Unit

6 Lessons

15 Lessons of 50 Minutes

3 Parts,
51 Pages of Work Bundles

Precipitation
Condensation
Evaporation
Transpiration
Infiltration
Runoff
Groundwater
Surface Water
Atmosphere
Hydrosphere

The Aral Sea
1960 / Today
Link Love Canal
And the source of Contamination is...
What is this a picture of?
The Earth surface is covered with roughly this percentage of water?
A) 3%
B) 75%
C) 97%
D) 25%
97% of all water on Earth is found in the ocean.
Earth is known as the blue planet as it is this glow from space.
- This blue is from all the water on our planet.
Atmosphere and the Hydrosphere

Curriculum Guide

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

 =Easier,

 = More difficult,

 =Most difficult

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

Earth Science Curriculum

SlideSpark Science

MIDDLE-LEVEL
EDUCATIONAL RESOURCES



Entire Water Unit

27 Lessons

Rivers, Lakes, Water Quality Unit

20+ Lessons

7 Units • 250 Lessons

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

Biogeochemical Cycles

17 Lessons

GEOLOGY Mega Bundle

6 Parts, 60 Lessons

Weathering, Soil Science, Ice Ages, Glaciers Unit

5 Parts 36 Lessons

Interactive Slideshows Follow Along Bundles

Weather and Climate Mega Bundle

40 Lessons

7 Units

Astronomy Mega Bundle

60 Lessons

7 Units

Grades 5-10

Life Science Units

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

Life Science Curriculum

SlideSpark Science

MIDDLE-LEVEL
EDUCATIONAL RESOURCES



Interactive Slideshows Follow Along Bundles

10 Units of Study



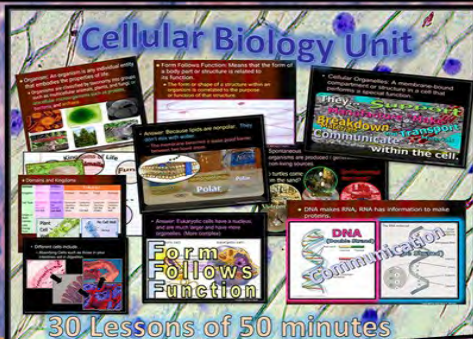
Botany Unit



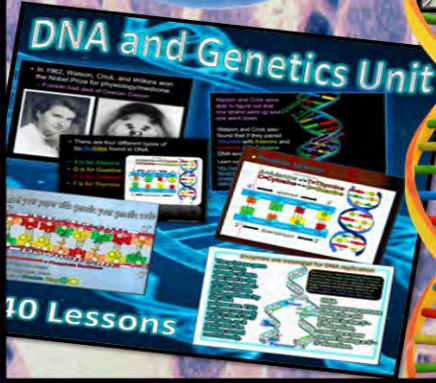
Human Body Systems Unit



Cellular Biology Unit



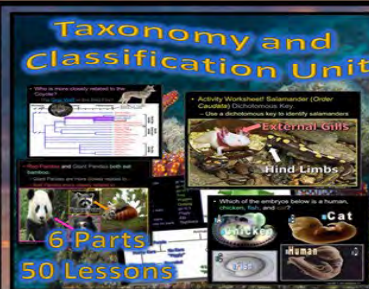
DNA and Genetics Unit



Infectious Diseases



Taxonomy and Classification Unit



Ecology Interactions Unit



Ecology Feeding Level Full Unit



Ecology Abiotic Factors Unit



Physical Science

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

[Physical Science Curriculum](#)

[Entire SlideSpark Science Curriculum](#)



Physical Science Curriculum

SlideSpark Science

MIDDLE-LEVEL
EDUCATIONAL RESOURCES



Science Skills Unit

5 Parts, 30 Lessons

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

Thousands of Interactive Slides

67 Pages of Follow Along
Work Bundle

Assessments, Games,
Video Links, and more

Everything you need to run an
amazing learning experience

Interactive Slideshows Follow Along Bundles

Grades 7-10

Laws of Motion and
Simple Machines Unit

33 Lessons

Interactive
Slideshows

With Follow Along
Work Bundles

63 Pages

Assessments, Activities,
Projects, and so much more

Atoms and Periodic Table Unit

6 Parts, 44 Lessons

Thousands of Interactive Slides

Follow Along Work Bundle

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

Exciting Activities, Questions,
Videos, All built-in

Matter and Energy and the Environment Unit

58 Lessons

Interactive Slideshows

with Follow Along Work Bundles

125 Pages

Activities, Assessments,
and more, all built-in

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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.

With appreciation,

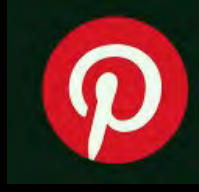
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Thank you for your time and interest in our Science curriculum. We strive to provide students with engaging and informative lessons that will spark their curiosity and encourage scientific exploration. Should you have any questions or concerns, please 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,

Support@slidespark.net



SlideSpark Science

MIDDLE-LEVEL
EDUCATIONAL RESOURCES



[SlideSpark Science on TpT](#)