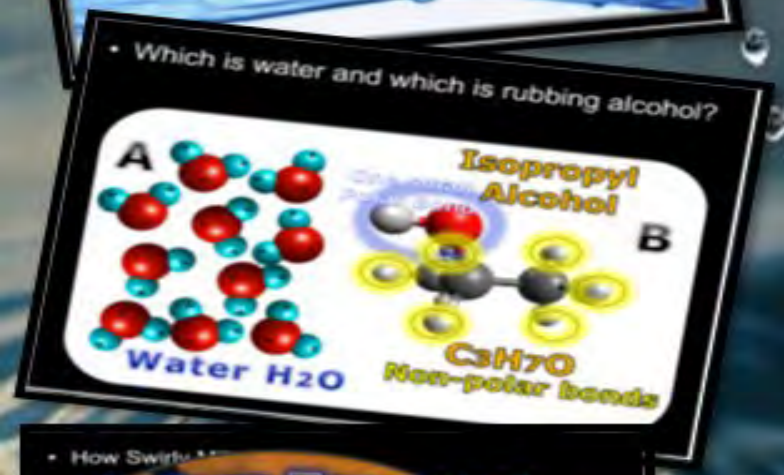
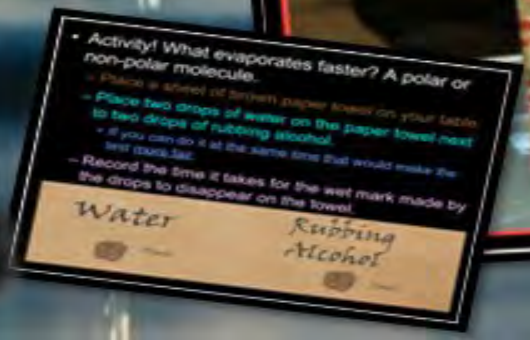
Properties of Water

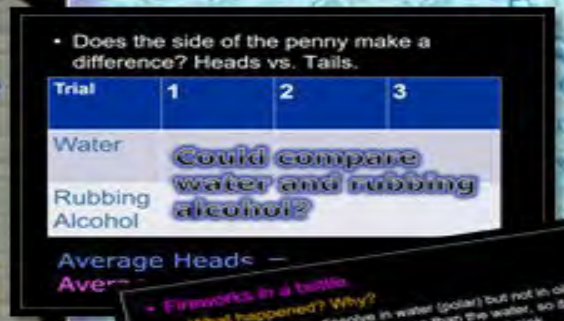
Preview is a compressed file

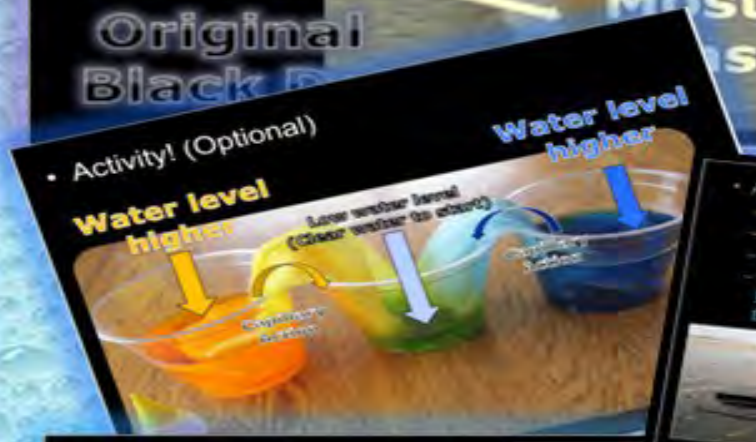


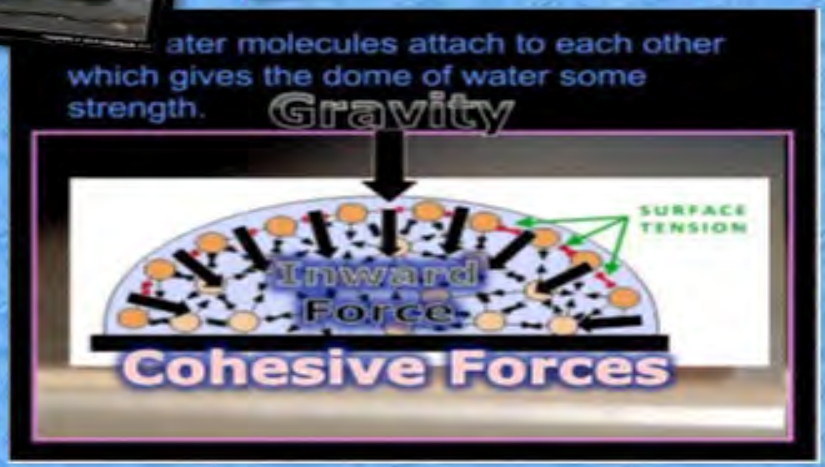


15 Lessons

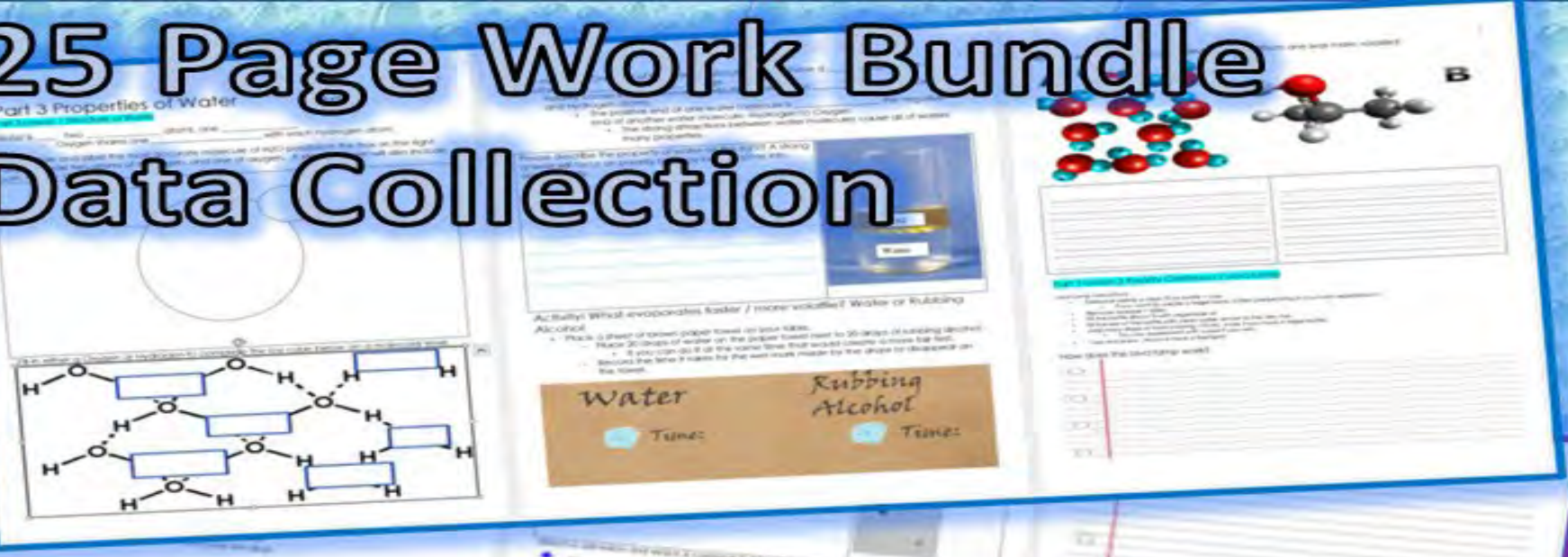
Full of hands-on activities



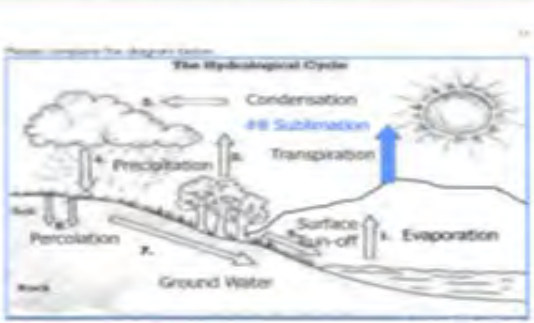


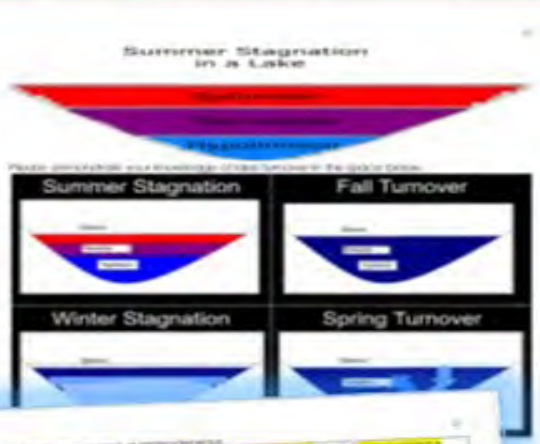


25 Page Work Bundle
Data Collection



Chronologically follows entire unit with built-in assessments





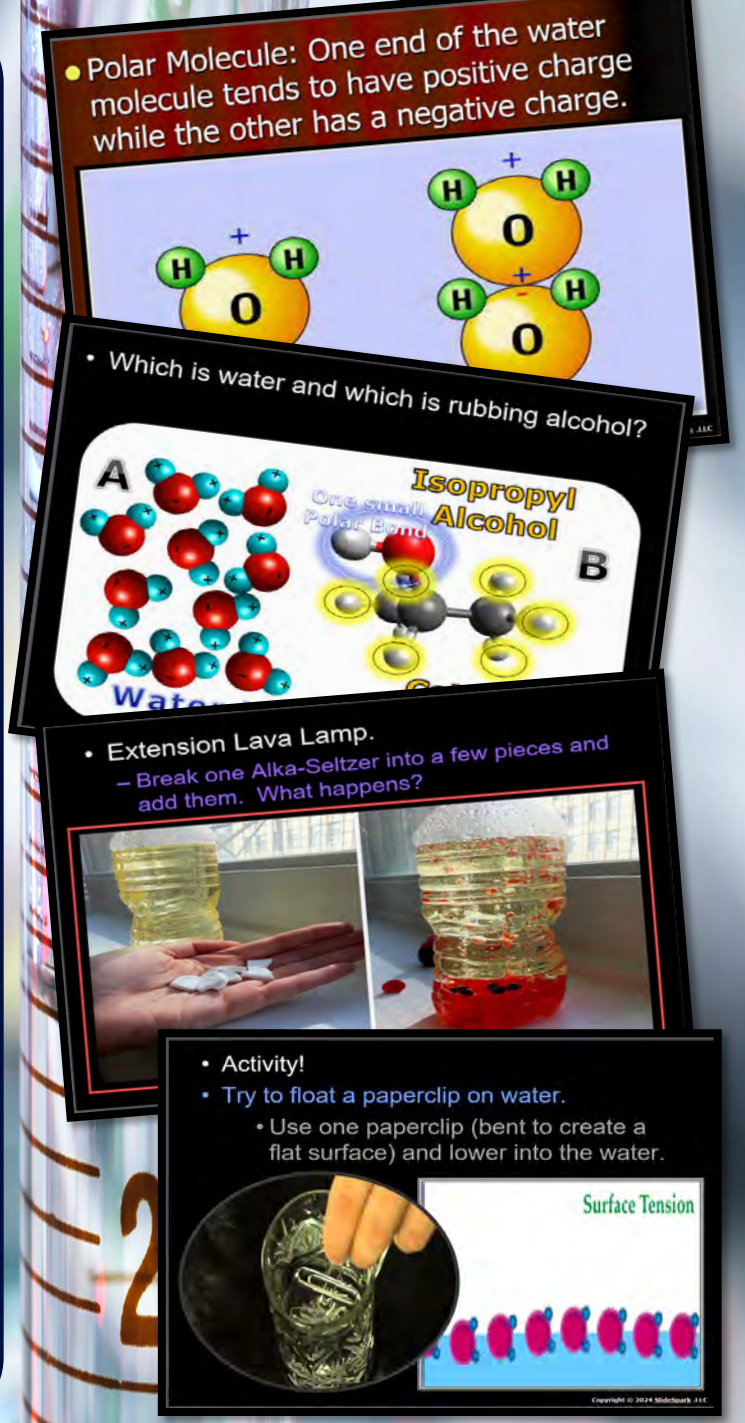
Answer Keys, Games, Editable, Everything you need is included

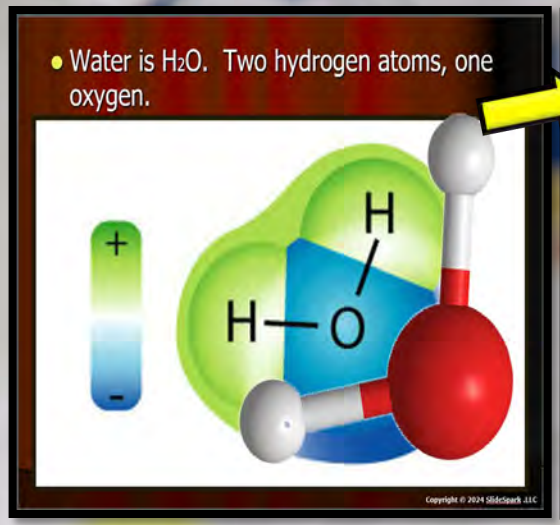
SlideSpark Science

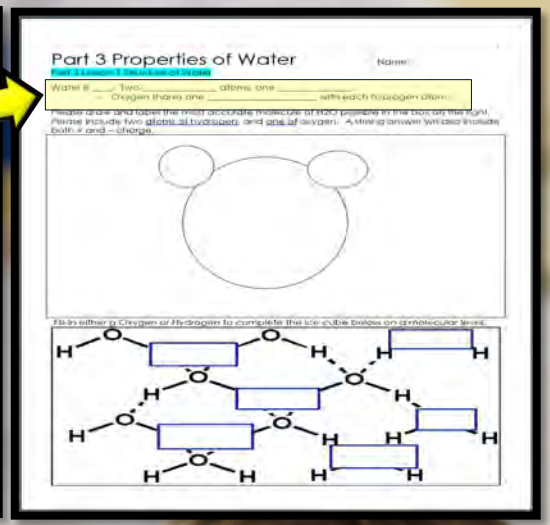
MIDDLE-LEVEL EDUCATIONAL RESOURCES

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.

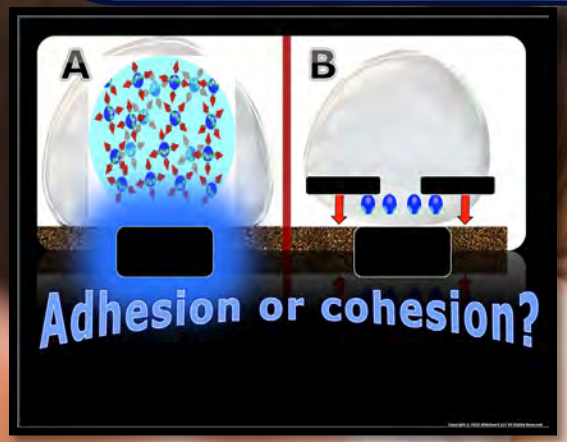


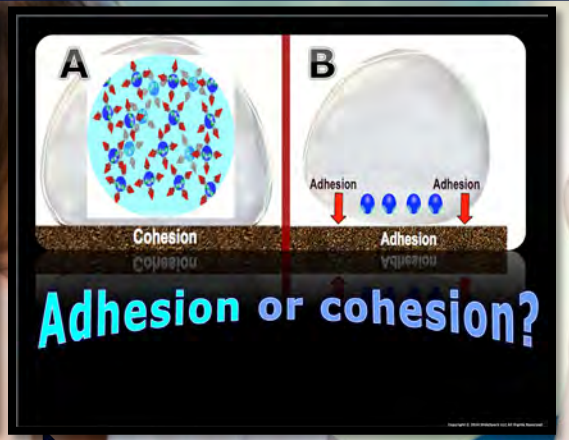




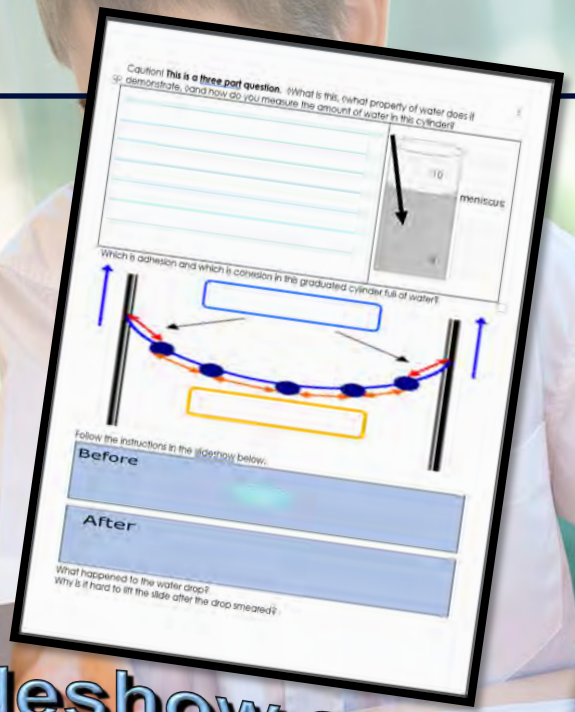
Red Slide Notes: Help students record important information in a fun and easy-to-understand way. Designed red-colored slides contain a few pieces of crucial information that students must record into their work bundle to complete the notes. Students will use these important notes throughout the work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

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.

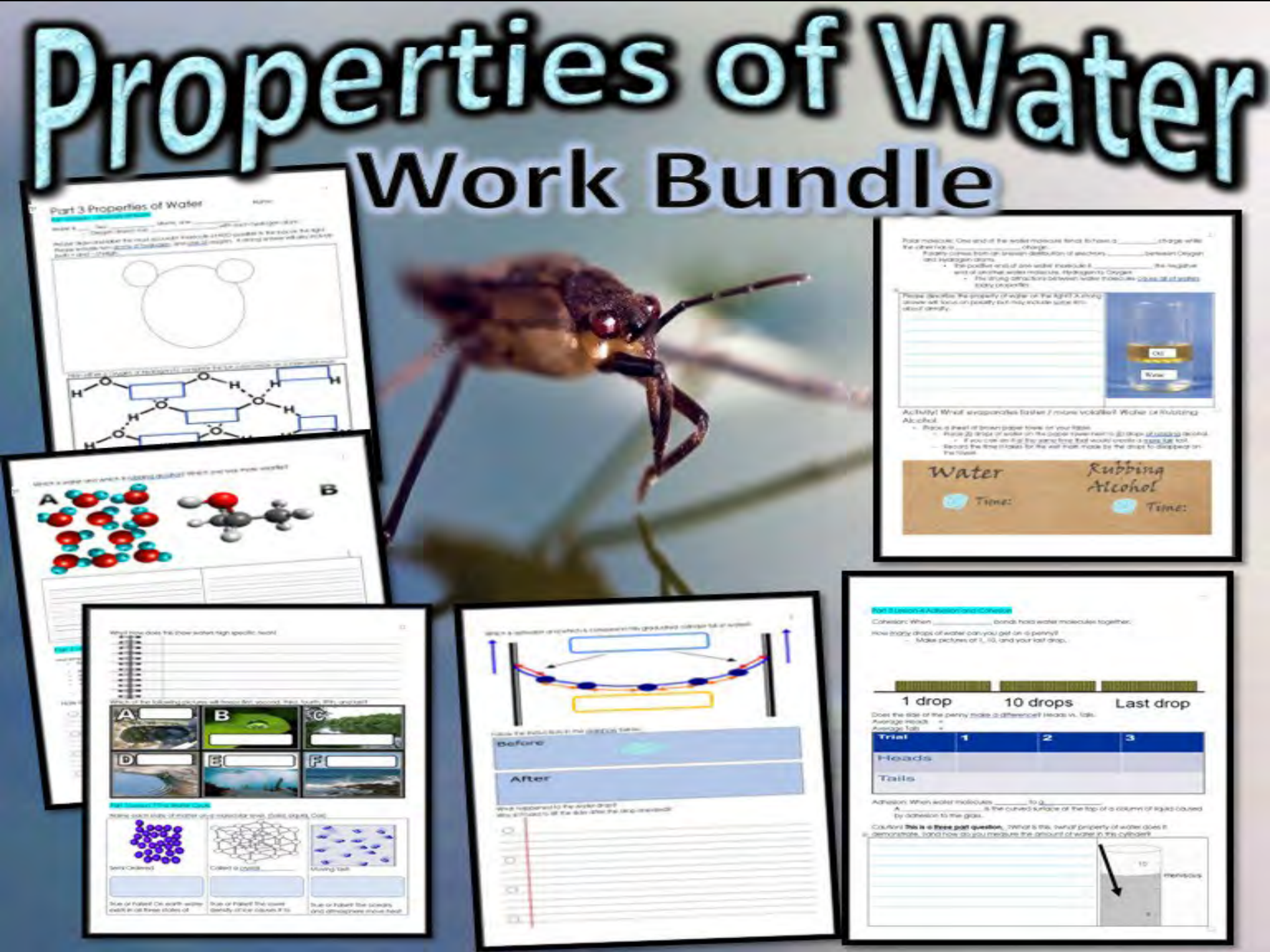
One clear, organized bundle guides students through notes, review, and assessments with ease.

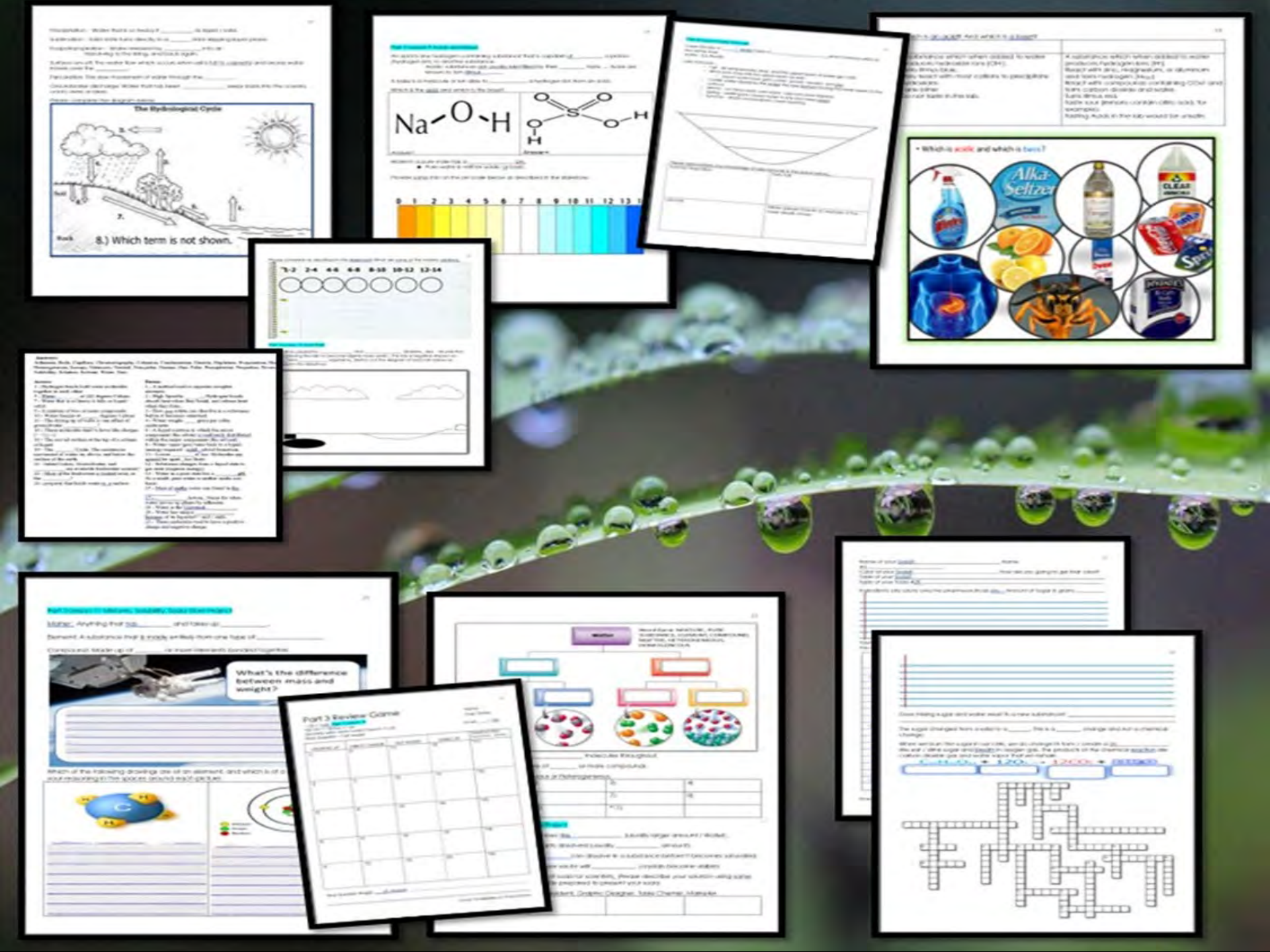
Follow Along Work Bundle

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.

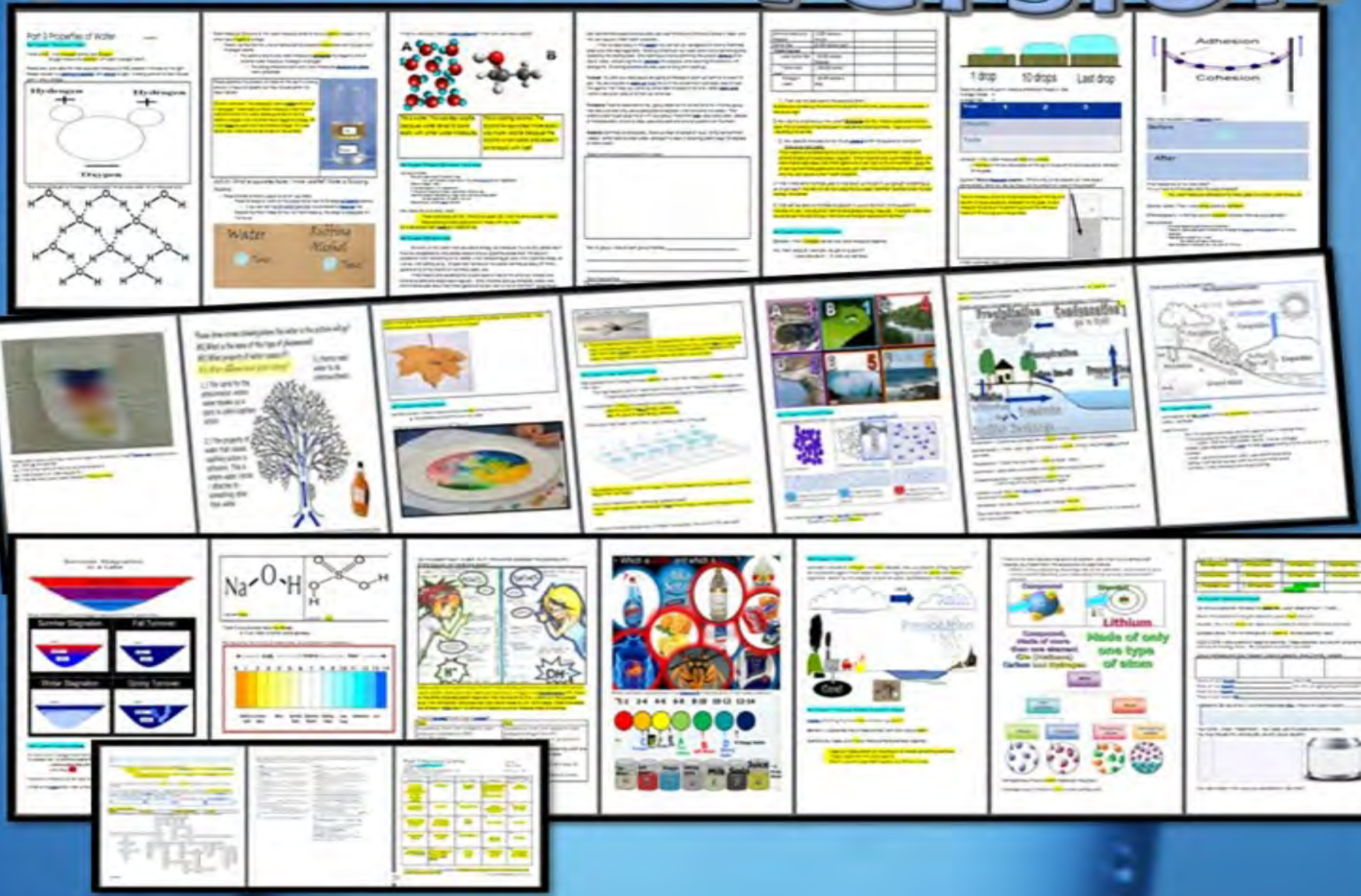
Properties of Water

Work Bundle



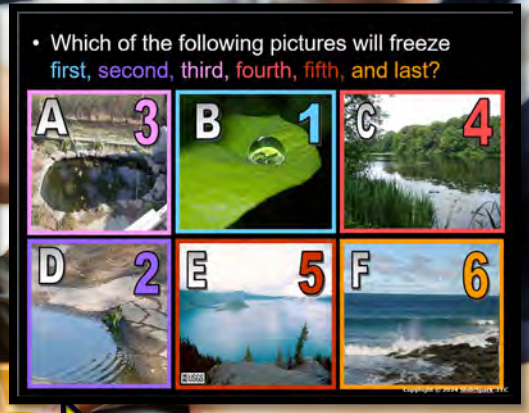

The Hydrological Cycle
8.) Which term is not shown.
Na O H
What's the difference between mass and weight?
Part 3 Review Game
• Which is acidic and which is basic?
Alka Seltzer

Answer Version



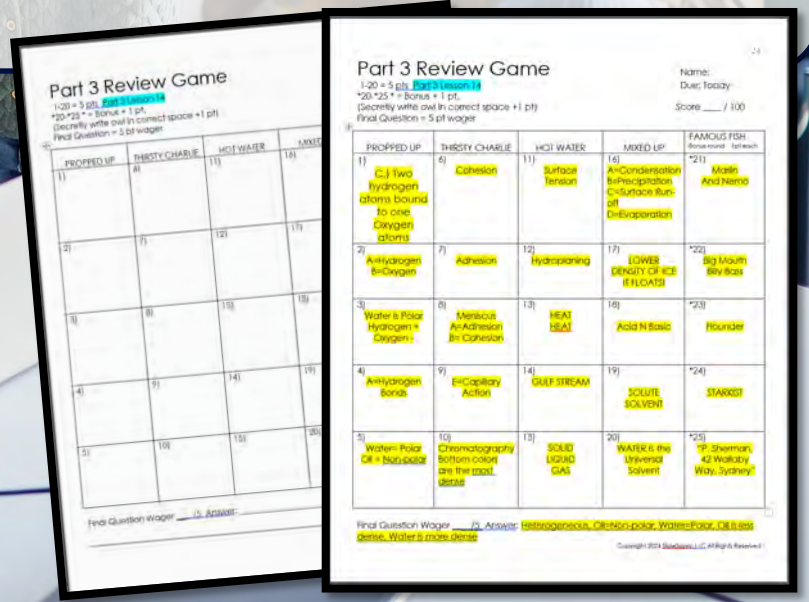
Built-in Questions and Assessments

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

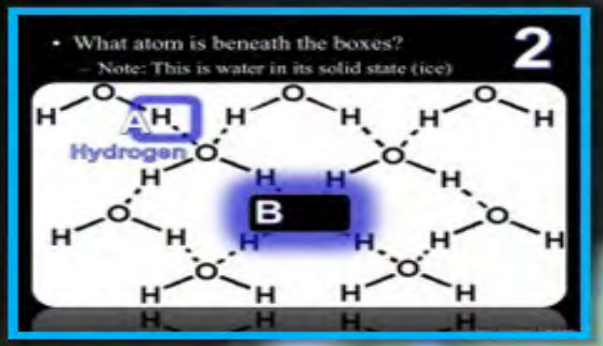


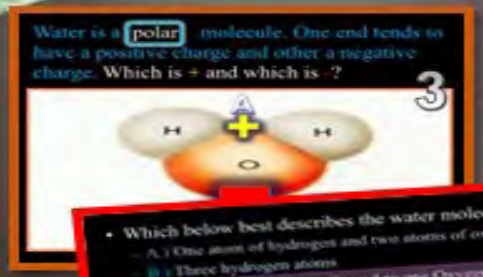
Review Game / Assessments

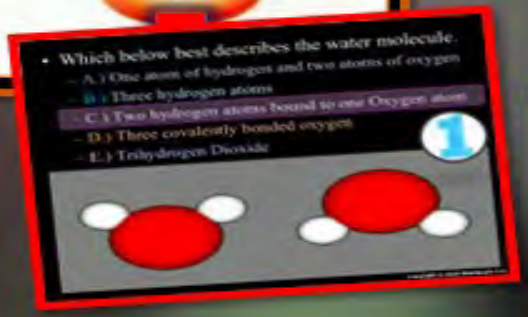
Each of the 11 Units concludes with a review quiz. Answers are provided in slideshow form so students can self assess. A blank template sheet is provided in the work bundle. Students can benefit from working together in small table groups with quiet communication. You can decide if you want to allow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

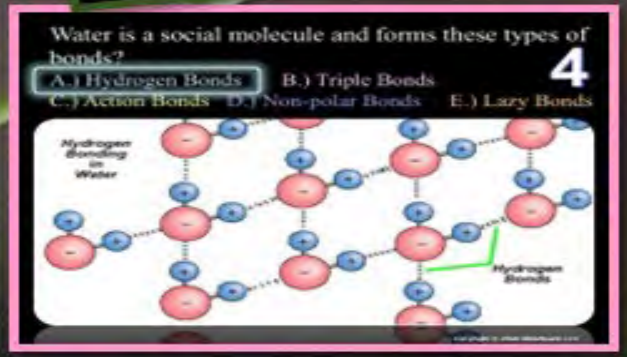


Properties of Water
QUIZ GAME









Fill-in the missing term

M n s S

8

- Name this method to used to separate a complex mixture?
  - Which color is the least dense?

10

Chromatography

Blue / Purple

Most Dense

- Name this property of water?

11

Surface Tension

- These images best represent the term…

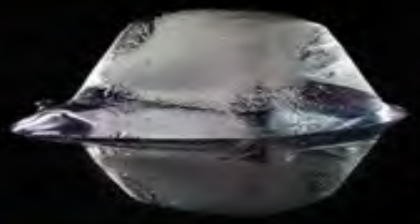
A.) Osmosis B.) Surface Tension C.) Neutral pH

D.) High Specific Heat E.) Capillary Action

9

Water Cycle

- Hydrogen bonds absorb [redacted] when they break, and release [redacted] when they form.



13

- What's the name for when a car loses control of the road as it rides on top of the water?

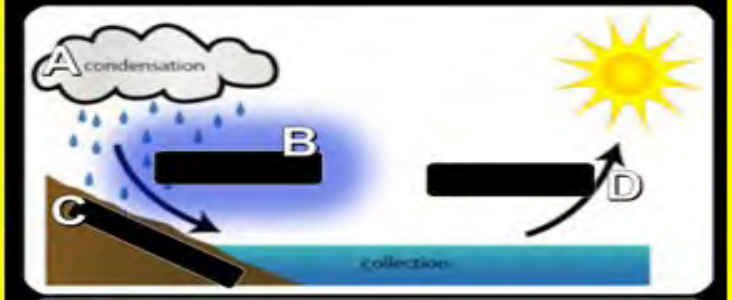
12

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

14

- Name the parts of the hydrologic cycle below?

16



- Waters exists in these states of matter on planet earth?

15

- Homogeneous or Heterogeneous?
- Which is polar and which in non-polar?
- Which is less dense?

Heterogeneous

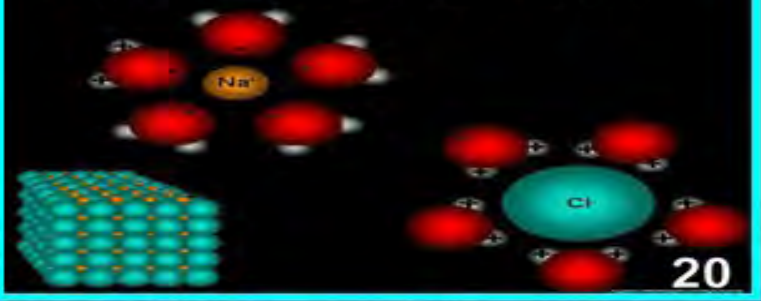
Oil Non-polar

Polar Water

Solvents

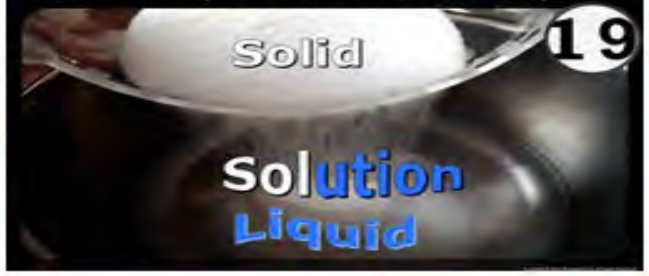
- The polarity of water pulls in other molecules and surrounds them with water molecules.

This makes water the…



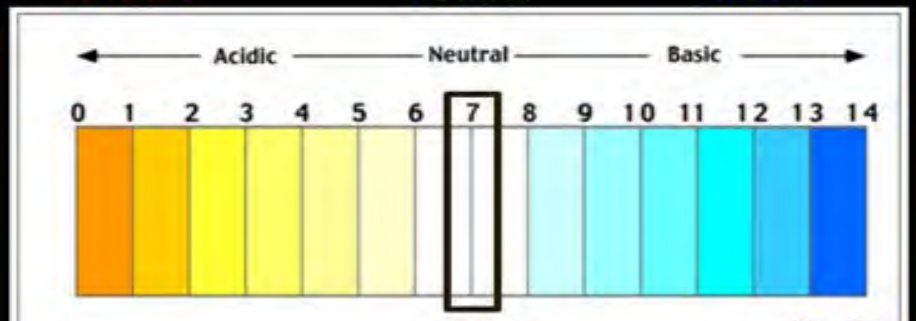
20

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

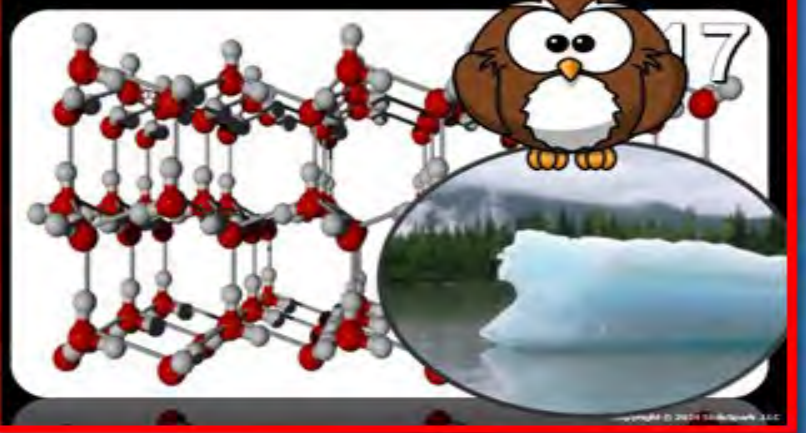


pH

- Where does water fall on the pH scale?
- Acidic -Neutral -Basic



- The Lower Density of **ICE**. It **Floats**!

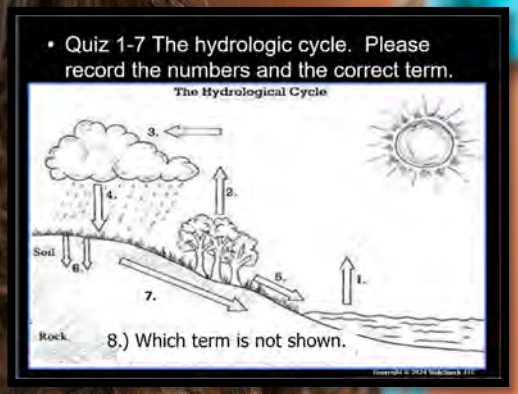


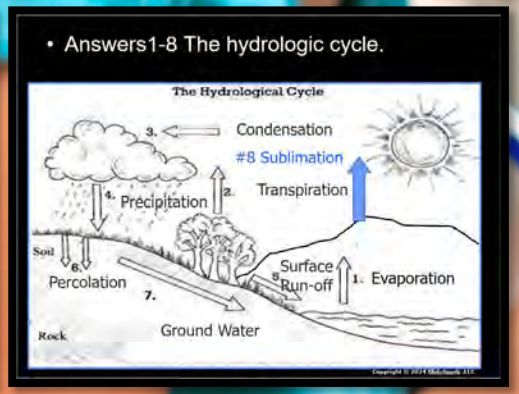
Activities / Labs

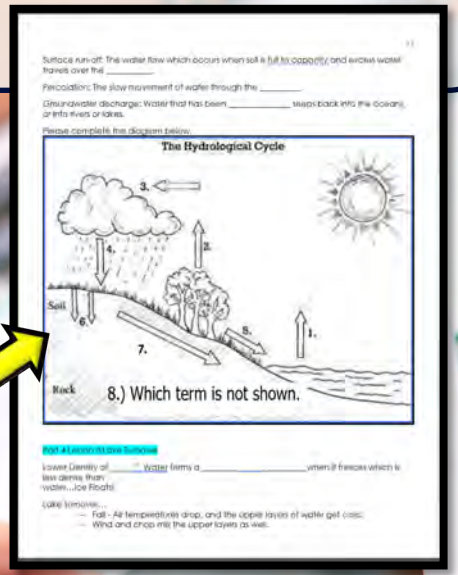
Our science activities are designed to help students explore and understand complex scientific concepts in an engaging and interactive way. Each science unit includes several hands-on activities that encourage students to collect data and think critically about the world around them. Our easy-to-follow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

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.







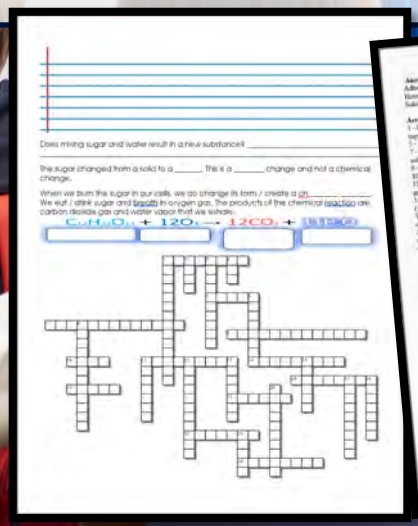
Quiz in Work Bundle

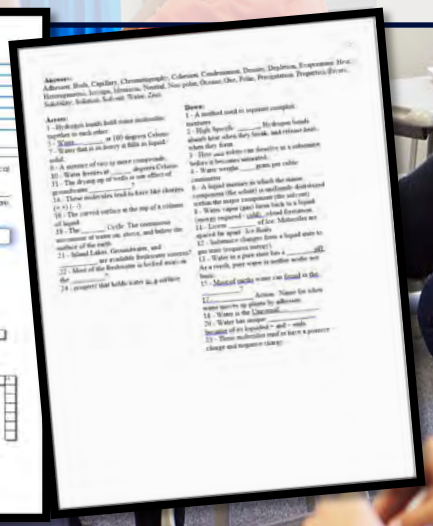
Built-in Video Links

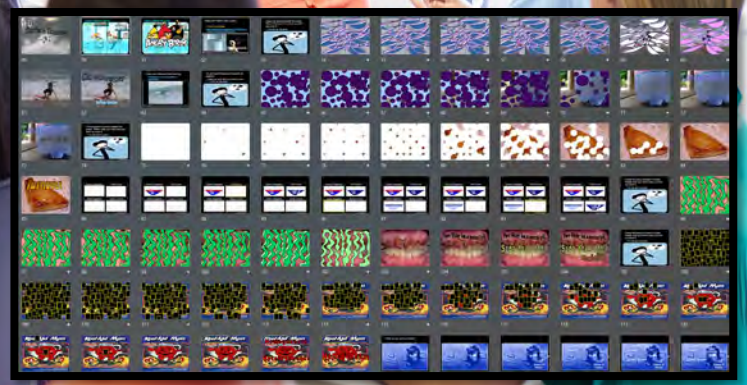
Our science education program is designed with the modern, multimedia learner in mind, and our video links are a perfect complement to our educational materials. These short clips are embedded into the slideshow at just the right places for a fantastic review. Whether you're studying biology, chemistry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

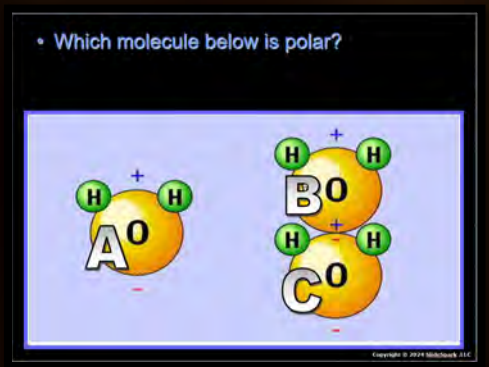
Games and Review

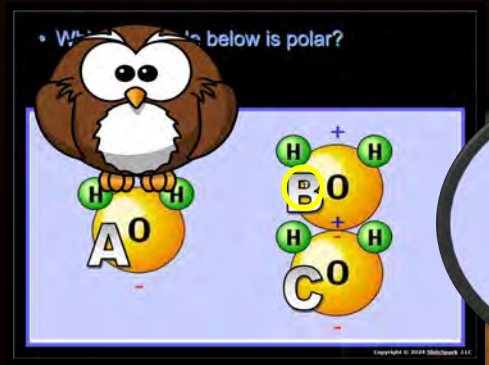
Games are a fantastic way for students to learn scientific concepts while having fun. We incorporate a variety of games into our curriculum, including interactive quizzes and puzzles that challenge students to think critically about the material. Our Hidden Box Games are a particularly popular feature, 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 3 Lesson 10 Acid Rain
Google Slides

Part 3 Lesson 2 Polarity Lav...
Google Slides

Part 3 Lesson 5 Surface Ten...
Google Slides

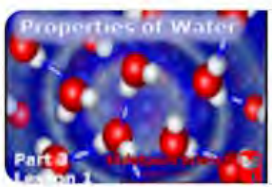
Part 3 Lesson 4 Adhesion C...
Google Slides

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

Part 3 Lesson 6 Specific Heat
Google Slides

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

Part 3 Lesson 8 Lake Turnov...
Google Slides



Part 3 Lesson 1 Structure of ...
Google Slides

Part 3 Lesson 7 Water Cycle...
Google Slides

Part 3 Lesson 13 Quiz Wrap ...
Google Slides

Part 3 Lesson 14 Review Ga...
Google Slides

Part 3 Lesson 12 Soda Store
Google Slides

Part 3 Lesson 11 Solubility t...
Google Slides

Water Molecule Unit

Water Unit

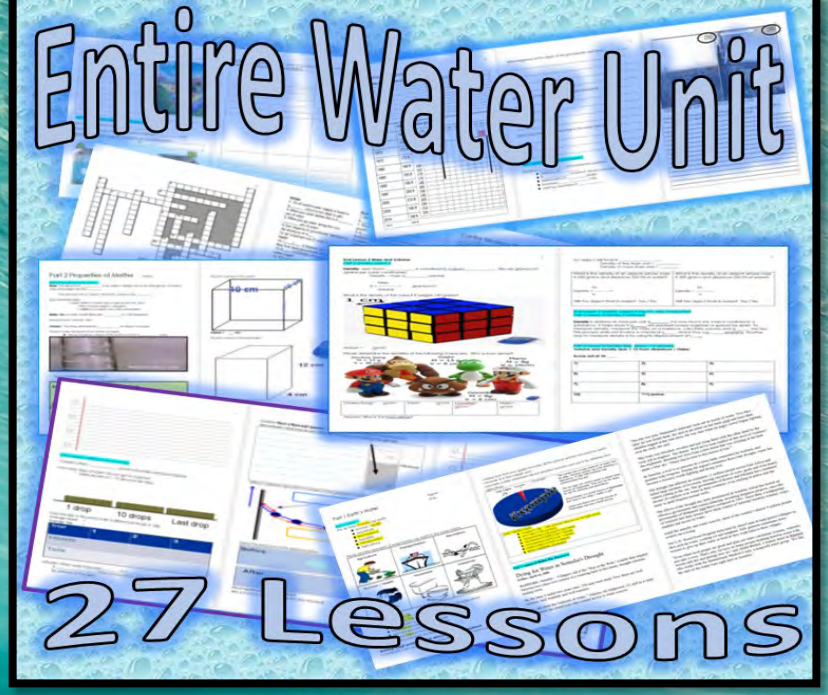
20 Lessons (5th-7th – Medium Difficulty) Part 1 has 8 Lessons and 21 Page Work Bundle, Part 2 has 5 Lessons and 5 Page Work Bundle, Part 3 has 14 Lessons and 25 Page Work Bundle

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

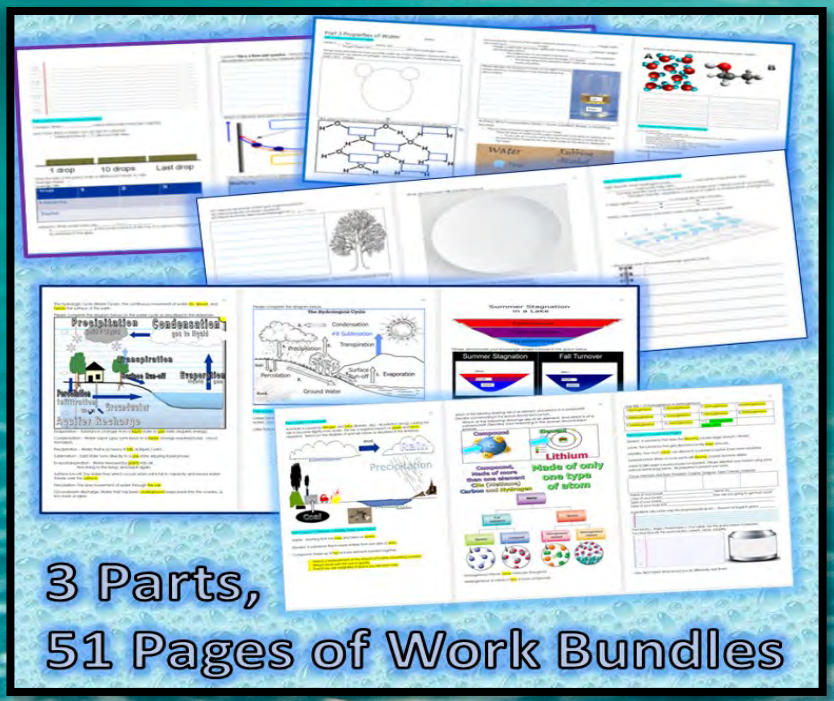
Water Unit Part 3: Properties of Water, The Water Molecule, Polar and Non-polar molecules, Volatility Activity with Alcohol vs. Water, Making a Lava Lamp Activity, Oil Spill at Sea Clean Up Project, Properties of Water, Cohesion, Adhesion, Water Drops on a Penny Activity, Capillary Action, Paper Chromatography 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

Entire Water Unit



27 Lessons

Full of hands-on activities



3 Parts,
51 Pages of Work Bundles

Hundreds of Amazing and Interactive Slides

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

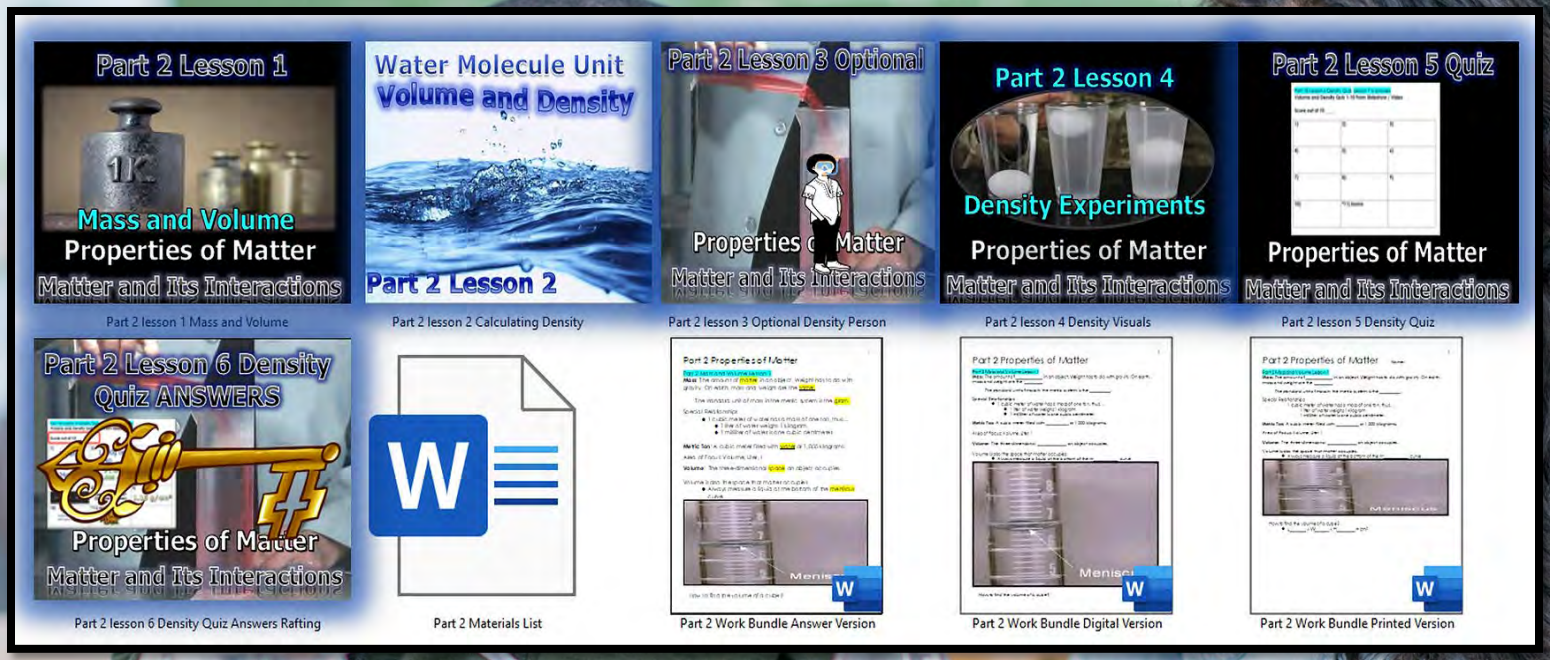
Part 1 Lesson 9 Review Game Answers


Part 1 Materials List


Part 1 Work Bundle Answers


Part 1 Work Bundle Printed

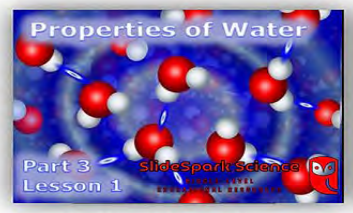
Part 2 Volume and Density: Mass, Metric Ton, Volume, Finding Volume of Objects and Measuring, Volume of Irregular Shaped Object by means of Water Displacement, Finding Density, Finding the Density of a Student Optional Activity, Going Rafting Activity



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

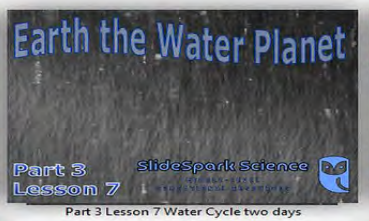
Part 3 Lesson 2 Polarity Lava Lamp

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

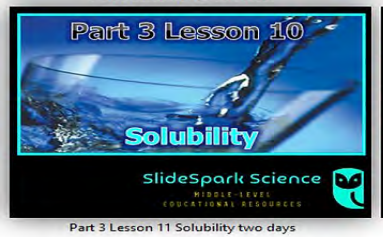


Part 3 Lesson 7 Water Cycle two days

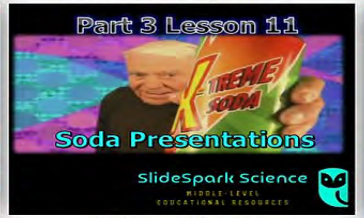
Part 3 Lesson 8 Lake Turnover

Part 3 Lesson 9 Acids and Bases

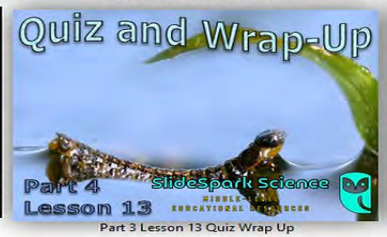
Part 3 Lesson 10 Acid Rain



Part 3 Lesson 11 Solubility two days



Part 3 Lesson 12 Soda Store

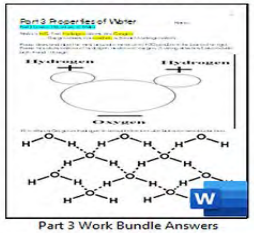


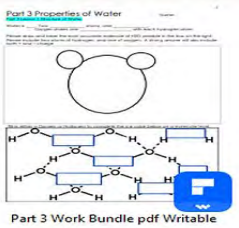
Part 3 Lesson 13 Quiz Wrap Up

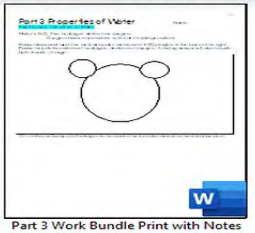
Part 3 Lesson 14 Review Game

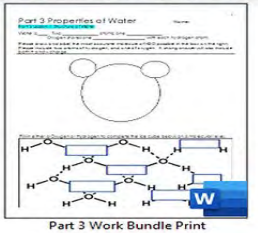
Part 3 Lesson 15 Review Game Answers


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

Curriculum Guide

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

=Easier,


= More difficult,


=Most difficult

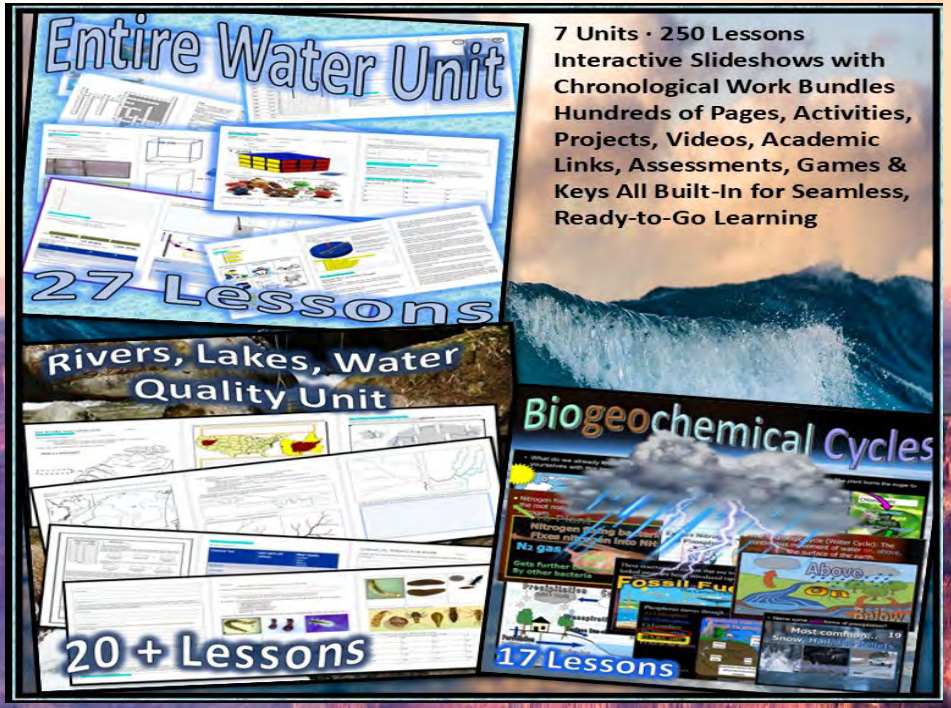
Earth Science Units	Daily Lessons	Intended Grade	
Geology Topics Unit	60 Lessons	6-8 medium difficulty	MORE DIFFICULT
Weather and Climate Unit	40 Lessons	6-8 medium difficulty	MORE DIFFICULT
Astronomy Unit	60 Lessons	6-8 medium difficulty	MORE DIFFICULT
Weathering, Soil Sciences	28 Lessons	5-7 easier	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

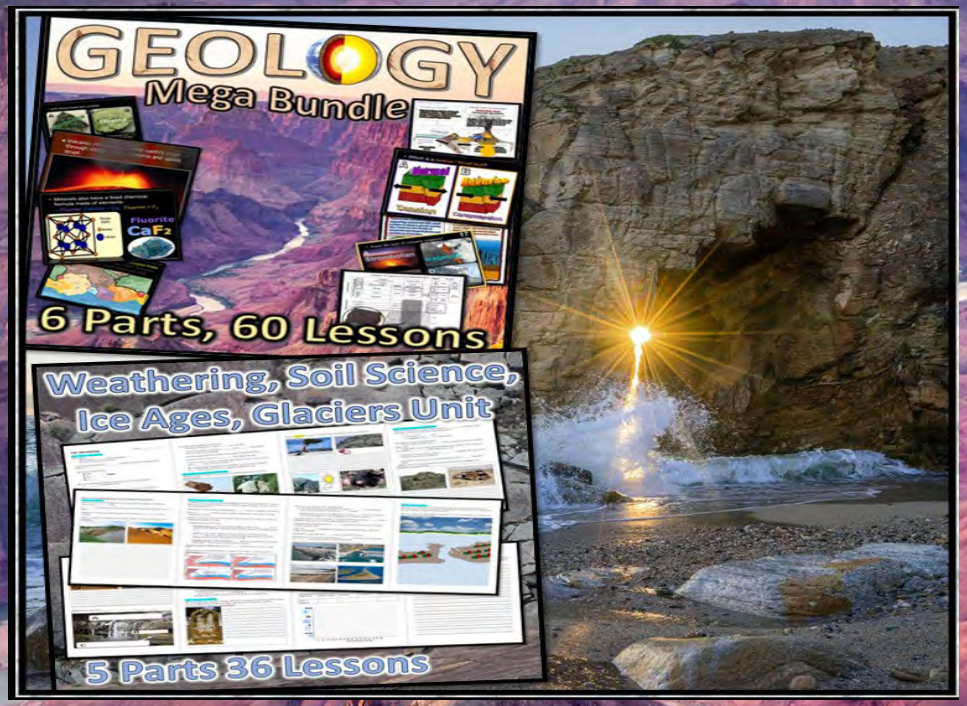
Earth Science Curriculum

Earth Science Curriculum

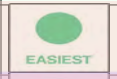
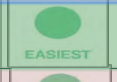
SlideSpark Science

MIDDLE-LEVEL EDUCATIONAL RESOURCES



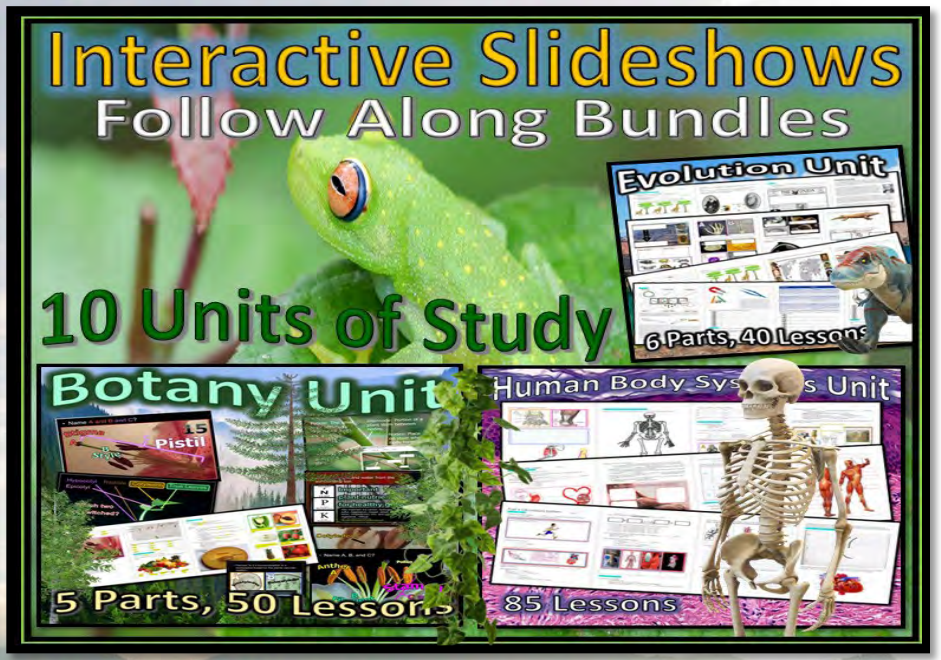


Life Science Units

	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


Life
Science
Curriculum
SlideSpark Science
MIDDLE-LEVEL
EDUCATIONAL RESOURCES


Interactive Slideshows
Follow Along Bundles
10 Units of Study
Evolution Unit
6 Parts, 40 Lessons
Botany Unit
5 Parts, 50 Lessons
Human Body Sys s Unit
85 Lessons


Cellular Biology Unit
Form Follows Function
30 Lessons of 50 minutes
DNA and Genetics Unit
40 Lessons
Infectious Diseases
30 Lessons


Taxonomy and Classification Unit
6 Parts
50 Lessons
Ecology Interactions Unit
30 Lessons
Ecology Feeding Le
Full Unit
Ecology Abiotic Factors Unit
27 Lessons

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	

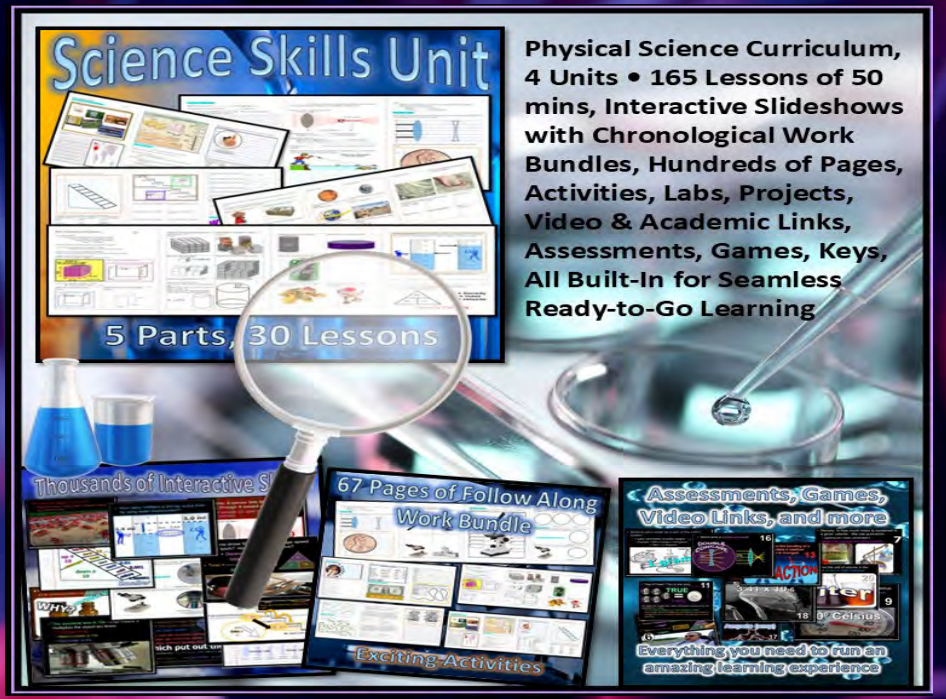
Physical Science Curriculum

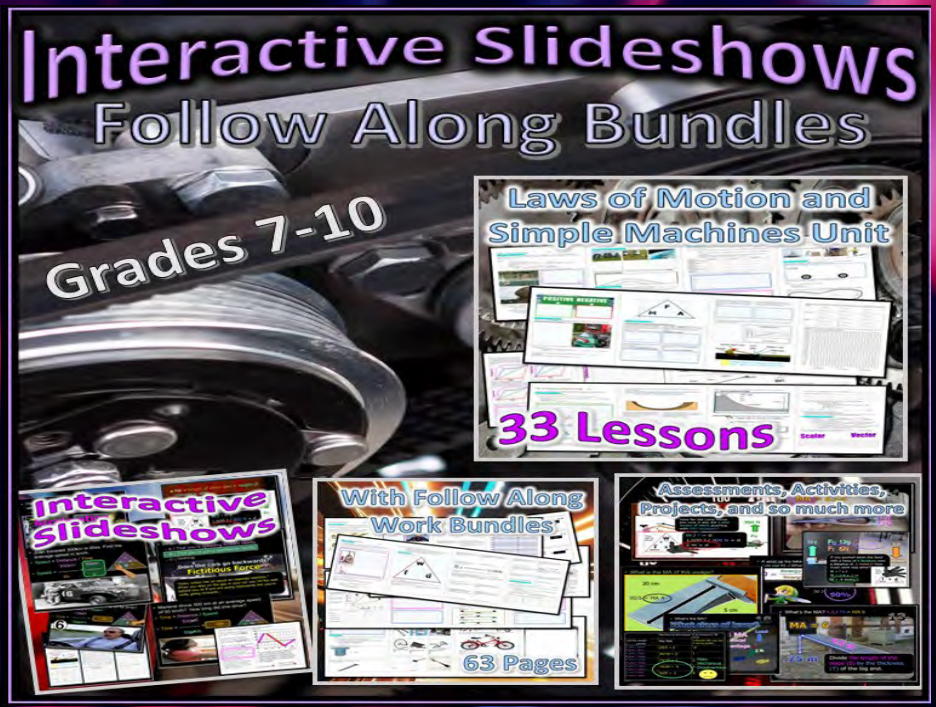
Entire SlideSpark Science Curriculum

Physical Science Curriculum

SlideSpark Science

MIDDLE-LEVEL EDUCATIONAL RESOURCES





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Sincerely,

Support@slidespark.net

SlideSpark Science

MIDDLE-LEVEL

EDUCATIONAL RESOURCES

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