Lab Safety and Magnification Unit

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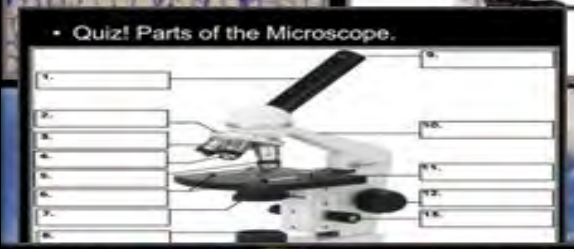
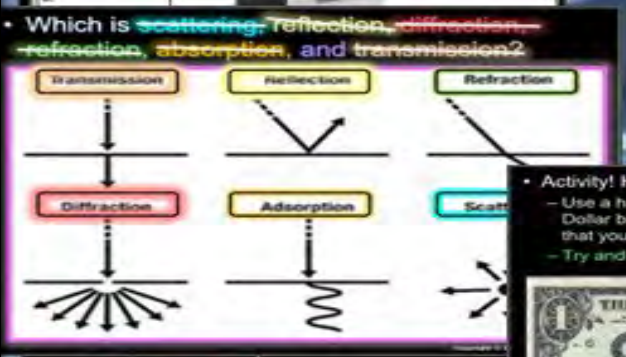
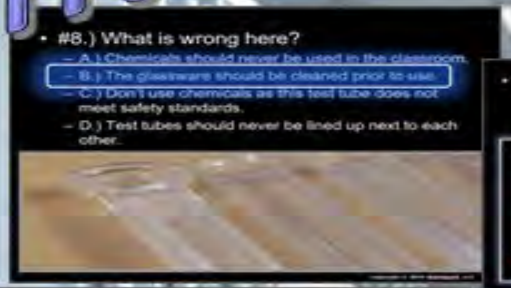
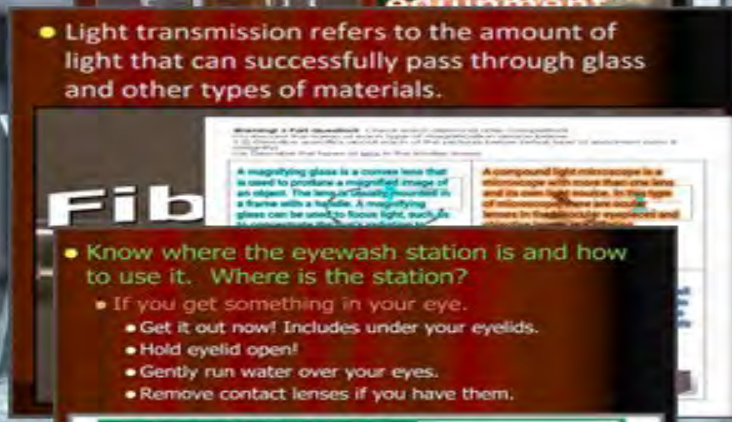


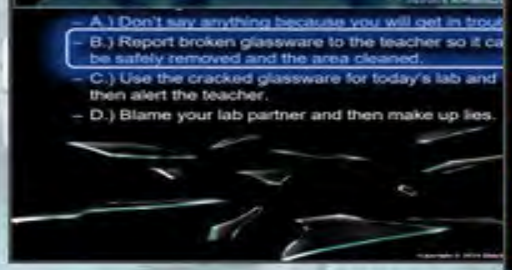


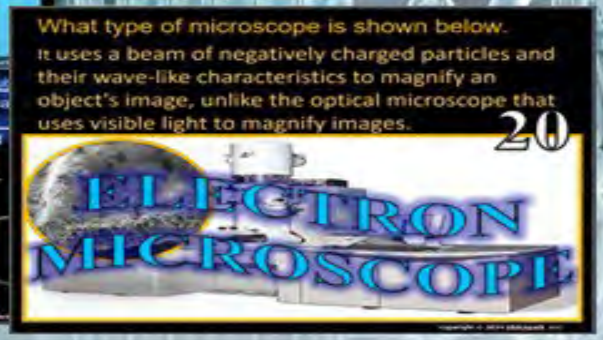
7 Lessons

Interactive Slideshows

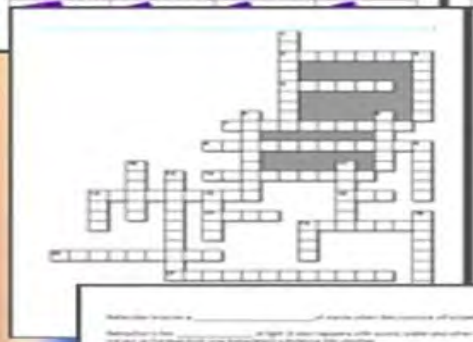


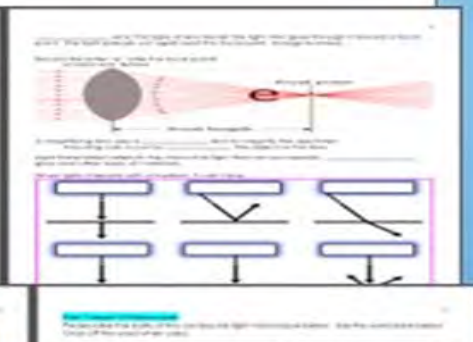


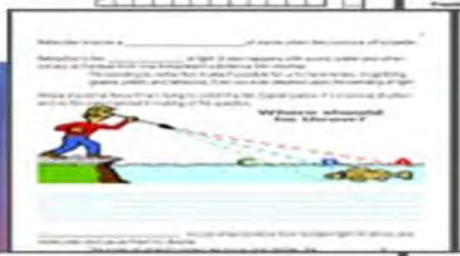


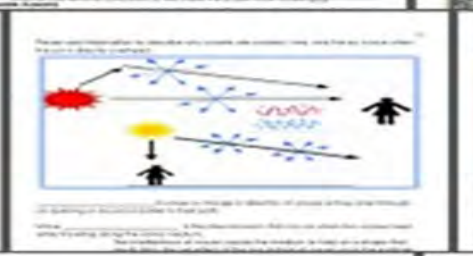


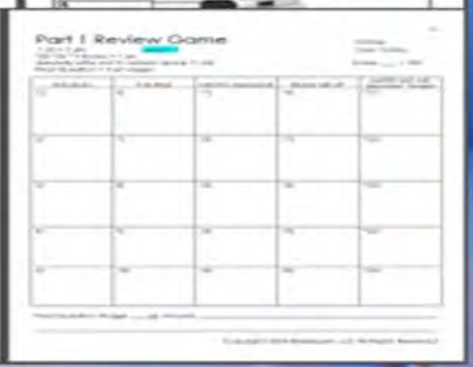
Follow Along Bundle





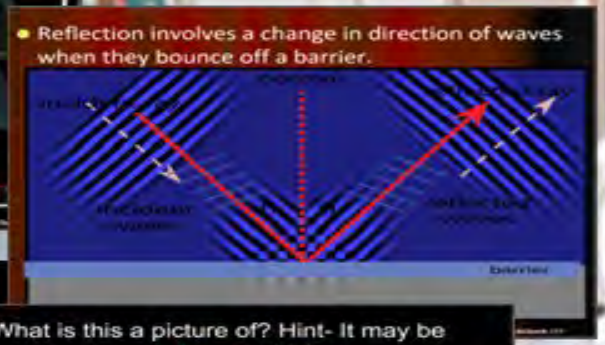


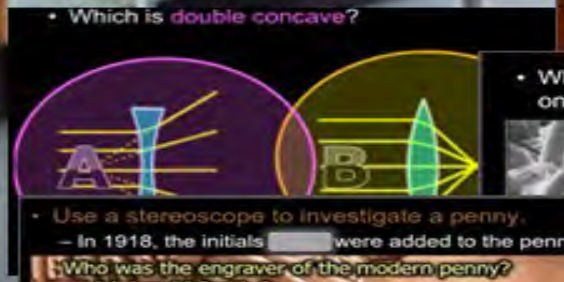


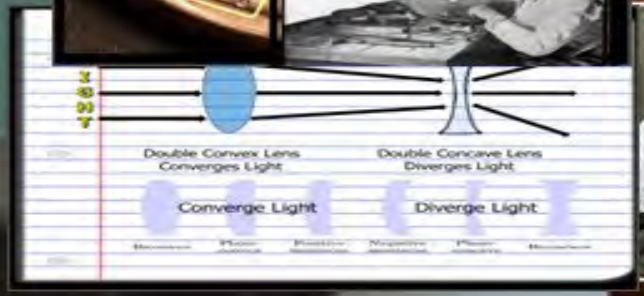


12 Pages

Activities, Assessments, Keys, and more all built-in







Part 1 Lab Safety and Magnification: Lab Safety, Ways to be Safe in the Lab, Lab Safety Equipment and how to use it, Building a Mini Fire Extinguisher Activity, Lab Safety Quiz and Contract, Magnification, Demagnification, Light Transmission, Absorption of Light, Reflection, Scattering, and Interference, Refraction, Diffraction, Optics, Convex Lens, Concave Lens, Converging and Diverging of Light, Microscopes, Stereoscopes, Hand Lenses, Electron Microscopes, Compound Light Microscopes, Parts of a Compound Microscope, Using a Microscope and Microscope Safety, Pond Life Study

Part 1: Science Skills Unit

Part 1 Lesson 1 Lab Safety

Part 1 Lesson 2 Lab Safety and Quiz

Part 1 Lesson 3 Magnification

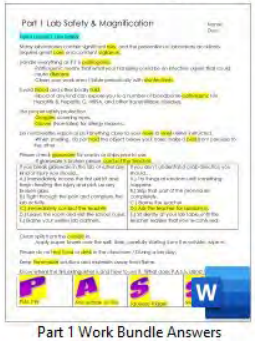
Part 1 Lesson 4 Optics

Part 1 Lesson 5 Microscope Quiz

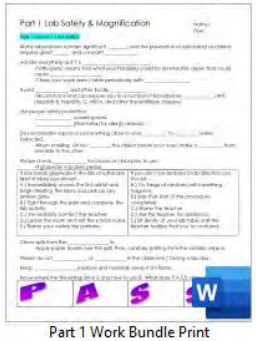
Part 1 Lesson 6 Microscope Wrap Up

Part 1 Lesson 7 Review Game

Part 1 Lesson 8 Review Game Answers



Part 1 Work Bundle Answers



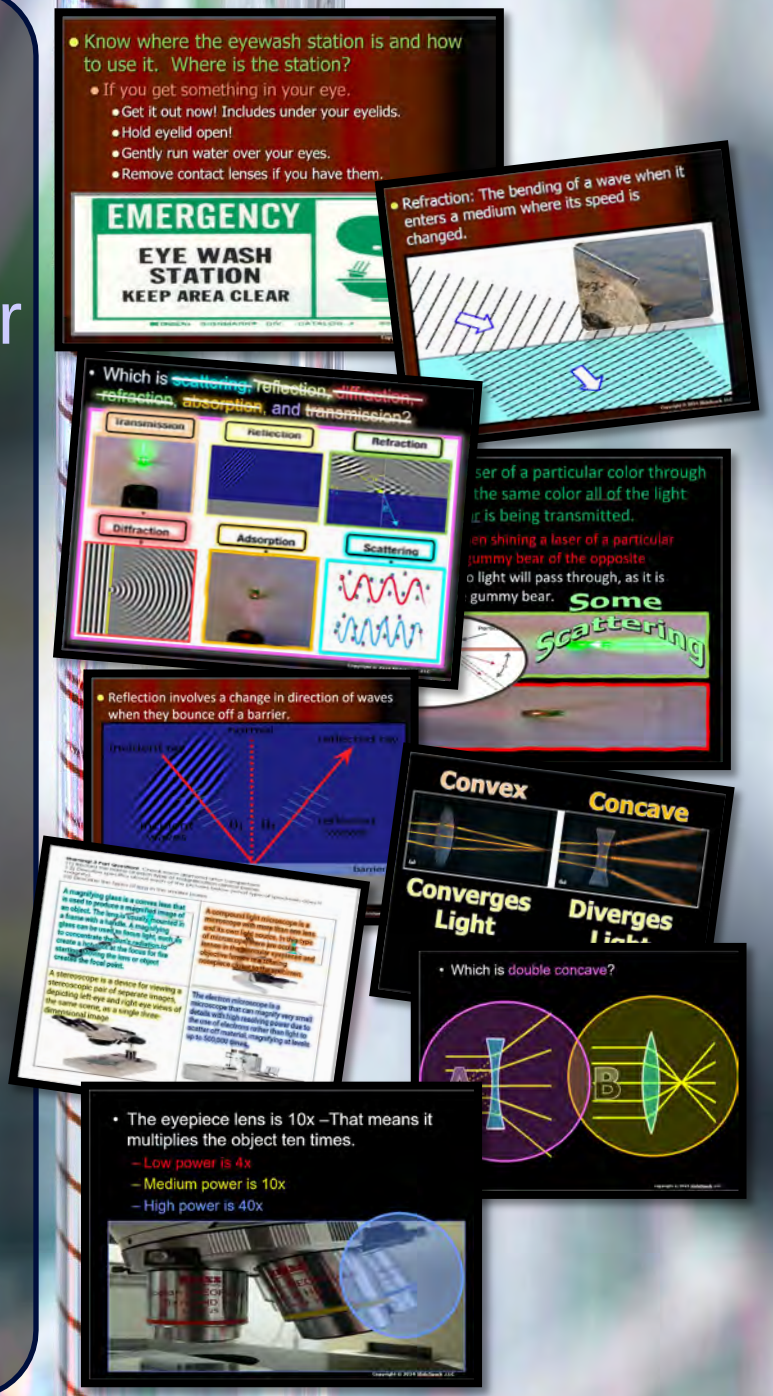
Part 1 Work Bundle Print

SlideSpark Science

MIDDLE-LEVEL EDUCATIONAL RESOURCES

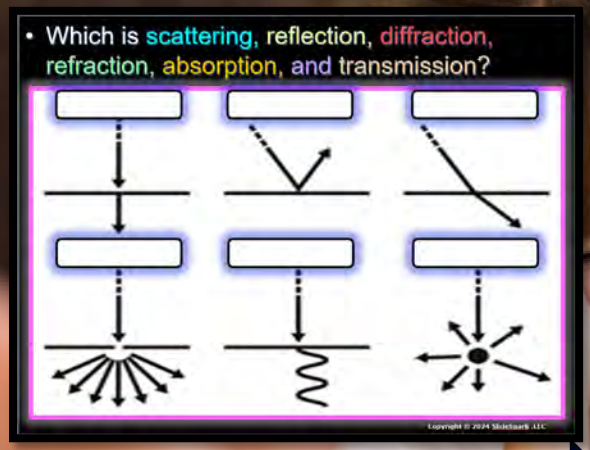
Interactive slideshows provide the roadmap for an amazing learning experience for students in grades 5-9. A Detailed set of work bundles chronologically follow the digital learning, providing a clear and intuitive roadmap to understanding. As the teacher or student advances through a slideshow, exciting 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.

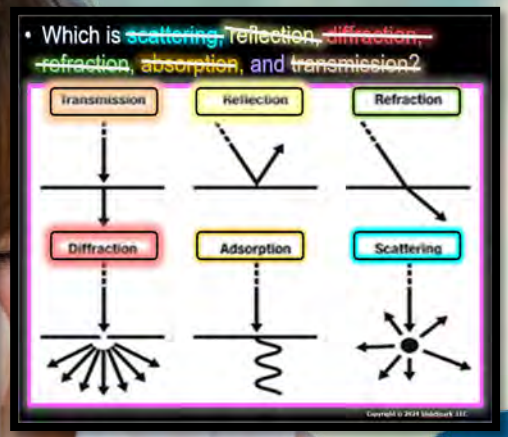
Each unit in the curriculum is designed to help teachers deliver the best possible learning experience for their students. Our interactive science slideshows are filled with questions and answers, important fill-in notes, hands-on activities, projects, games, built-in quizzes, and end of the unit assessment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

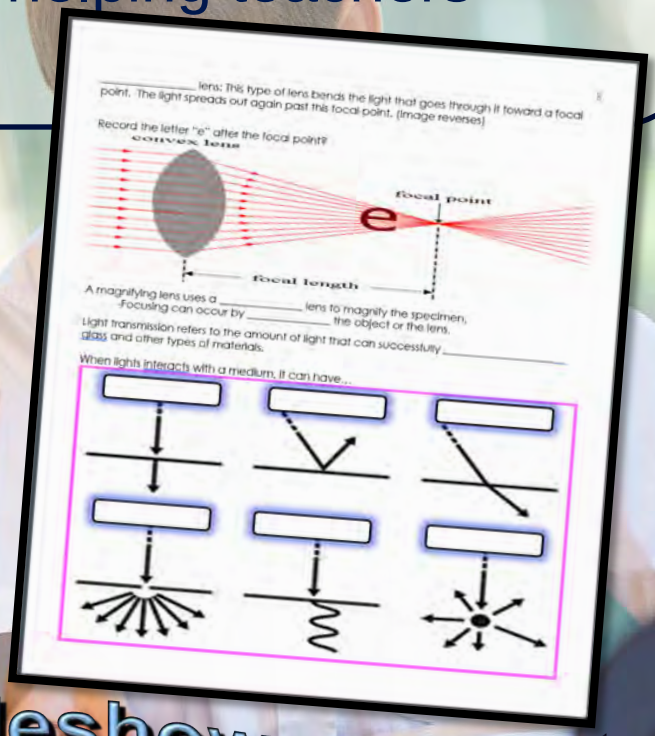


Red Slide Notes: Help students record important information in a fun and easy-to-understand way. Designed red-colored slides contain a few pieces of crucial information that students must record into their work bundle to complete the notes. Students will use these important notes throughout the work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

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.

Part 1 Lesson 1 Lab Safety

Part 1 Lesson 2 Lab Safety and Quiz

Part 1 Lesson 3 Magnification

Part 1 Lesson 4 Optics

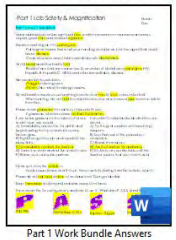
Part 1 Lesson 5 Microscope Quiz

Part 1 Lesson 6 Microscope Wrap Up

Part 1 Lesson 7 Review Game

Part 1 Lesson 8 Review Game Answers


Part 1 Materials List

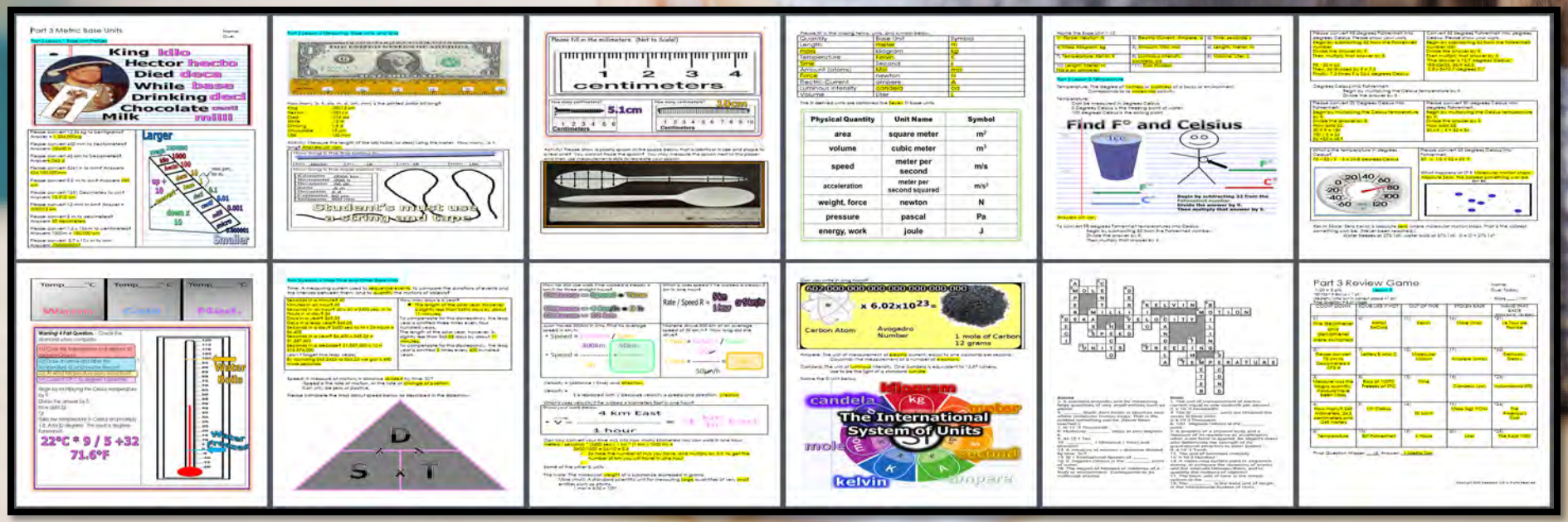

Part 1 Work Bundle Answers


Part 1 Work Bundle Print

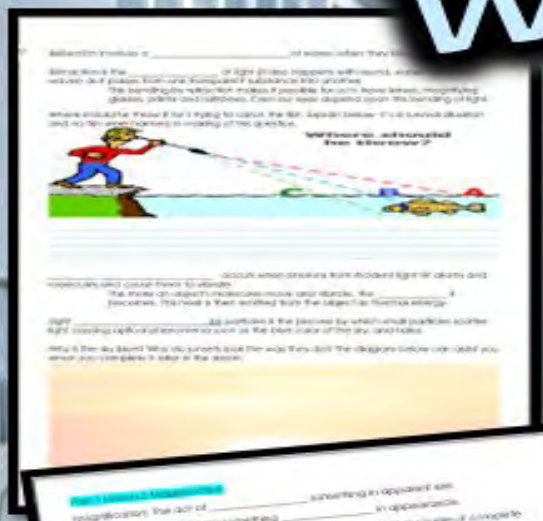
Lessons chronologically follow a single work bundle

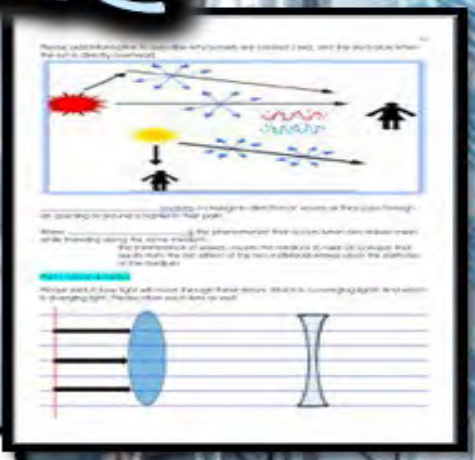
Follow Along Work Bundle

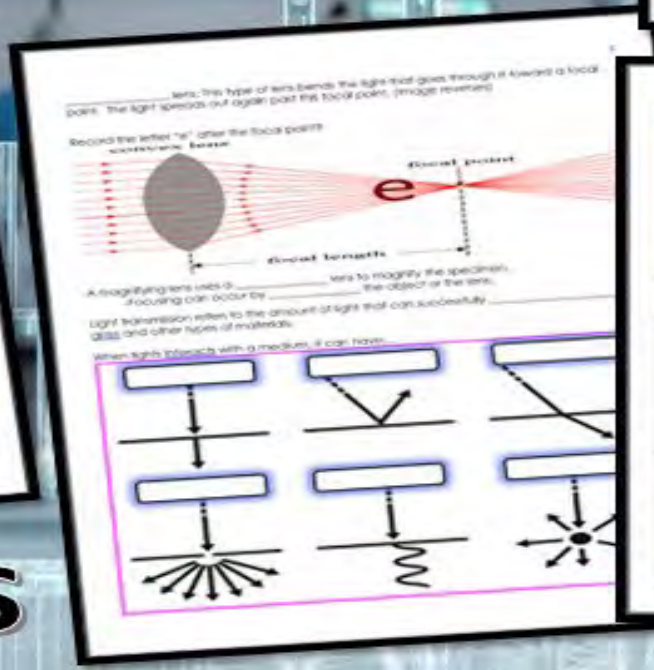
Each science unit includes a single printable work bundle that stays with students from start to finish. Just print and distribute on day one—no daily handouts needed. The bundle follows the unit chronologically and includes everything: fill-in notes, diagrams, quizzes, lab activities, with follow up 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..

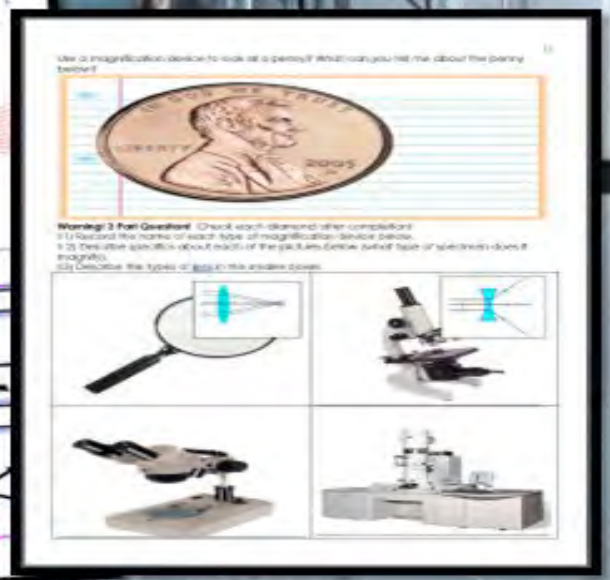


Lab Safety and Magnification Unit Work Bundle









16 Pages

List 6 unsafe activities shown in the illustration and the person making them. Why is it unsafe?

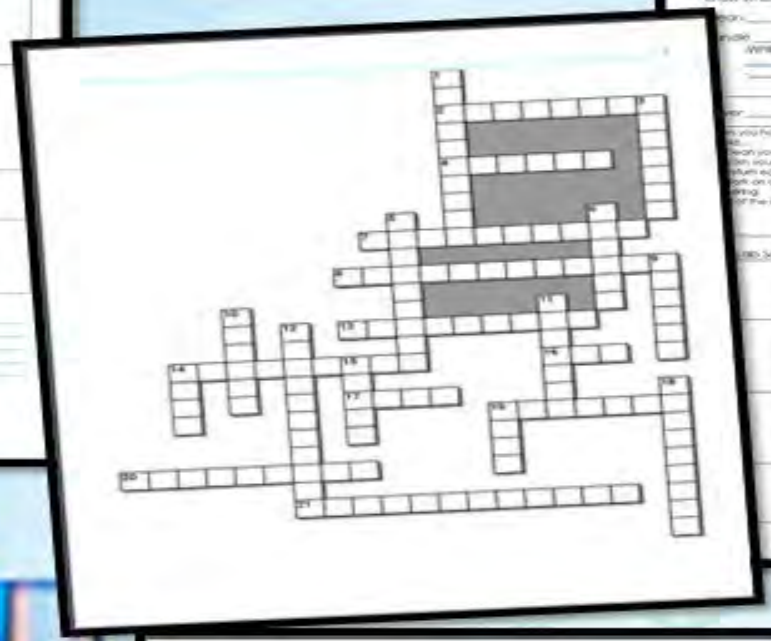
Name: Unsafe Activity:	Name: Unsafe Activity:	Name: Unsafe Activity:
Name: Unsafe Activity:	Name: Unsafe Activity:	Name: Unsafe Activity:

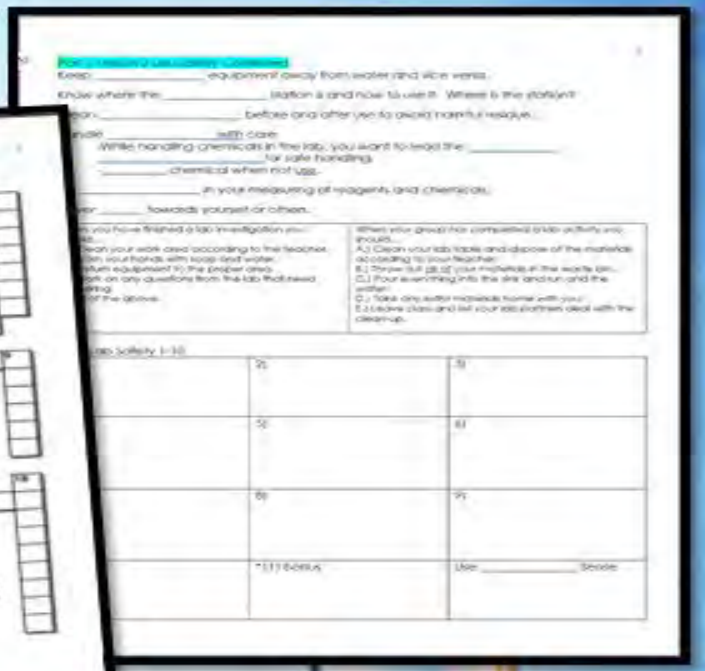
List three items in the illustration that are there for the safety of the students in the lab.

1) _____ 2) _____ 3) _____

What are three things shown in the lab that should not be there?

Where are safety features in your own classroom?





Keep _____ equipment away from water and vice versa.

Know where the _____ station is and how to use it. Where is the station?

Wash _____ before and after use to avoid harmful residue.

Handle _____ with care.

While handling chemicals in the lab, you want to read the _____ for safe handling.

_____ chemical when not use.

_____ in your measuring of reagents and chemicals.

_____ towards yourself or others.

When you have finished a lab investigation you:

A.) Clean your work area according to the teacher.

B.) Wash your hands with soap and water.

C.) Turn equipment to the proper area.

D.) Ask any questions from the lab that need writing.

E.) Put the gloves.

When your group has completed a lab activity you should:

A.) Clean your lab table and dispose of the materials according to your teacher.

B.) Throw out all of your materials in the work bin.

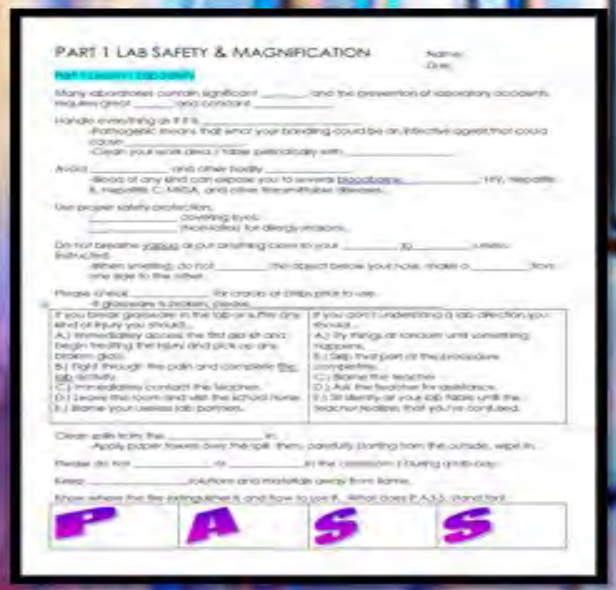
C.) Pour everything into the sink and run until the clean up.

D.) Take any extra materials home with you.

E.) Leave class and let your lab partners deal with the clean up.

Lab safety (1-10)

	5)	9)
	6)	10)
	7)	11)
	*11) Goggles	Use: _____ Smile



PART 1 LAB SAFETY & MAGNIFICATION

Name:
Date:

Part 1 Lesson 1 Objective

Many laboratories contain significant _____ and the prevention of laboratory accidents requires great _____ and constant _____.

Handle everything as if it is _____.

-Pathogenic means that what your handling could be an infective agent that could cause...

-Clean your work area / table periodically with _____.

Avoid _____ and other bodily _____.

-Blood of any kind can expose you to several bloodborne _____ HIV, Hepatitis B, Hepatitis C, MRSA, and other life-threatening illnesses...

Use proper safety protection.

_____ covering eyes.

_____ (Non-latex) for allergy reasons.

Do not breathe vapors or put anything close to your _____ to _____ unless instructed.

-When smelling, do not _____ the object below your nose, make a _____ from one side to the other.

Please check _____ for cracks or chips prior to use.

-If glassware is broken, please...

If you break glassware in the lab or suffer any kind of injury you should...

A.) Immediately access the first aid kit and begin treating the injury and pick up any broken glass.

B.) Fight through the pain and complete the lab activity.

C.) Immediately contact the teacher.

D.) Leave the room and visit the school Nurse.

E.) Blame your useless lab partners.

If you don't understand a lab direction you should...

A.) Try things at random until something happens.

B.) Skip that part of the procedure completely.

C.) Blame the teacher.

D.) Ask the teacher for assistance.

E.) Sit silently at your lab table until the teacher realizes that you're confused.

Clean spills from the _____ in _____.

-Apply paper towels over the spill, then, carefully (sorting from the outside, wipe in.

Please do not _____ or _____ in the classroom / during grab-day.

Keep _____ solutions and materials away from flame.

Know where the fire extinguisher is and how to use it. What does P.A.S.S. stand for?

P	A	S	S

Across

2. Backpacks and other belongings that could become a _____ hazard should be stored away.
4. Use proper safety protection. _____ (Non-latex) for allergy reasons.
7. Keep _____ equipment away from water and vice versa.
8. While handling chemicals in the lab, you want to read the _____ for safe handling.
13. Please check _____ for cracks or chips prior to use.
14. Keep _____ solutions and materials away from flame.
16. _____ chemicals when not in use
17. No _____ toed footwear on lab day!
19. Know where the _____ station is and how to use it.
20. Many laboratories contain significant risks, and the prevention of laboratory accidents requires great care and constant V_____.
21. Know where the fire _____ is and how to use it.

Down

1. Handle everything as if it's_____/ It can cause a disease.
3. Use proper safety protection: _____ covering eyes Gloves (Non-latex) for allergy reasons.
5. Clean _____ before and after use to avoid harmful residue.
6. Do not breathe _____ or put anything close to your nose to smell unless instructed.
9. Clean _____ from the outside in.
10. Avoid cutting _____ yourself or others.
11. Be _____ in your measuring of reagents and chemicals.
12. Most Importantly! Use C_____
14. Please do not eat _____ or drink in the classroom.
15. Avoid _____ and other bodily fluids.
18. Handle _____ with care
19. Don't leave materials next to the _____ of tables to avoid slips and spills.

Notes

_____(Instructor can remove word bank to make the puzzle more challenging)_____

Possible Answers

BLOOD, CAP CHEMICALS, COMMONSENSE, EDGE, GLOVES, GOGGLES, OPEN, PATHOGENIC, SPILLS, TOWARD, VAPORS, ELECTRICAL , EXTINGUISHER, EYEWASH , FLAMMABLE, FOOD, GLASSWARE , GLASSWARE , INSTRUCTIONS, PRECISE, TRIPPING , VIGILANCE

What type of microscope is this? What kind of specimens does it use?

Magnification = ___ x ___ =

Please make a quick sketch of a specimen found in pond water using a depressed slide or from a prepared slide.

Low Power	Medium Power	High Power
Magnification = ___ x ___	Magnification = ___ x ___	Magnification = ___ x ___

In this space please draw how to prepare a wet mount slide. Draw what you see on the right after making a wet mount slide. What's the magnification?

The electron microscope uses a beam of _____ and their wave-like characteristics to magnify an object's image, unlike the optical microscope that uses visible light to magnify images.

Across

1. A _____ microscope is an upright microscope that uses two sets of lenses (a compound lens system) to obtain higher magnification than a stereo microscope.
4. The _____ lens is 10x - That means it multiplies the object ten times
7. A _____ is a laboratory instrument used to examine objects that are too small to be seen by the naked eye.
9. Body _____: Connects the eyepiece to the objective lenses
11. To make something smaller in appearance.
13. The flat platform where you place your slides.
16. A transparent optical device used to converge or diverge transmitted light.
17. _____ and Fine Focus knobs are used to focus the microscope.
18. Do not use the coarse adjustment when the microscope is using the _____ power lens.
19. It is a diverging lens, meaning that it spreads out light rays that have been refracted through it.

Down

1. _____ lens: A lens that bends the light that goes through, it toward a focal point
2. The act of expanding something in apparent size.
3. _____ Lenses: They almost always consist of 4x, 10x, 40x and 100x powers.
5. Revolving _____: This is the part of the microscope that holds two or more objective lenses and can be rotated to easily change power.
6. The bending of a wave when it enters a medium where its speed is changed.
7. A _____ lens uses a single lens to magnify the specimen.
8. A _____ is a device for viewing a pair of separate images, depicting left-eye and right-eye views of the same scene, as a single three-dimensional image.
10. Magnification works because of _____
11. Many microscopes have a rotating disk under the stage. This _____ has different sized holes and is used to vary the intensity and size of the cone of light that is projected upward into the slide.
12. A concave _____, is a mirror that is curved inward in the middle.
13. Light travels in a _____ line
14. Supports the tube and connects the microscope to the base
15. An _____ microscope is a microscope that uses a beam of accelerated electrons as a source of illumination.

Teacher can remove the word bank to make the crossword more challenging

Possible Answers:
ARM, COARSE, CONCAVE, CONVEX, DEMAGNIFICATION, ELECTRON, HIGH, LENS, LIGHT, MAGNIFICATION, NOSEPIECE, OBJECTIVE, REFRACTION, STAGE, TUBE, COMPOUND, DIAPHRAGM, EYEPIECE, MAGNIFYING, MICROSCOPE, MIRROR, STEREOSCOPE, STRAIGHT

Part 1 Review Game

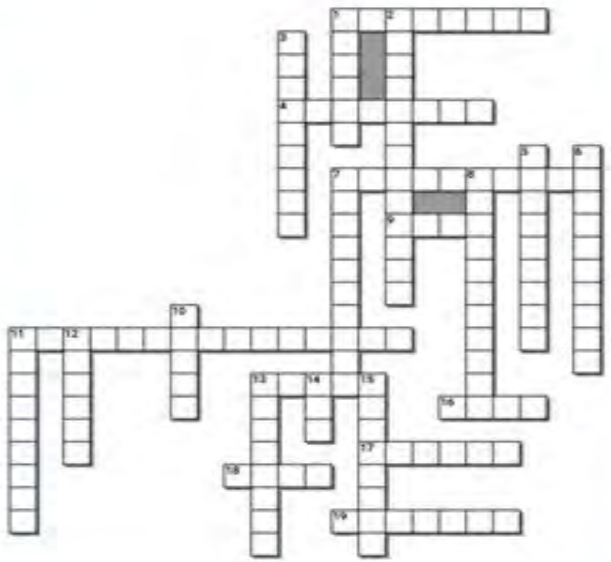
1-20 = 5 pts
*20-*25 * = Bonus = 1 pt.
(Secretly write owl in correct space +1 pt)
Final Question = 5 pt wager

Name:
Date: Solstar

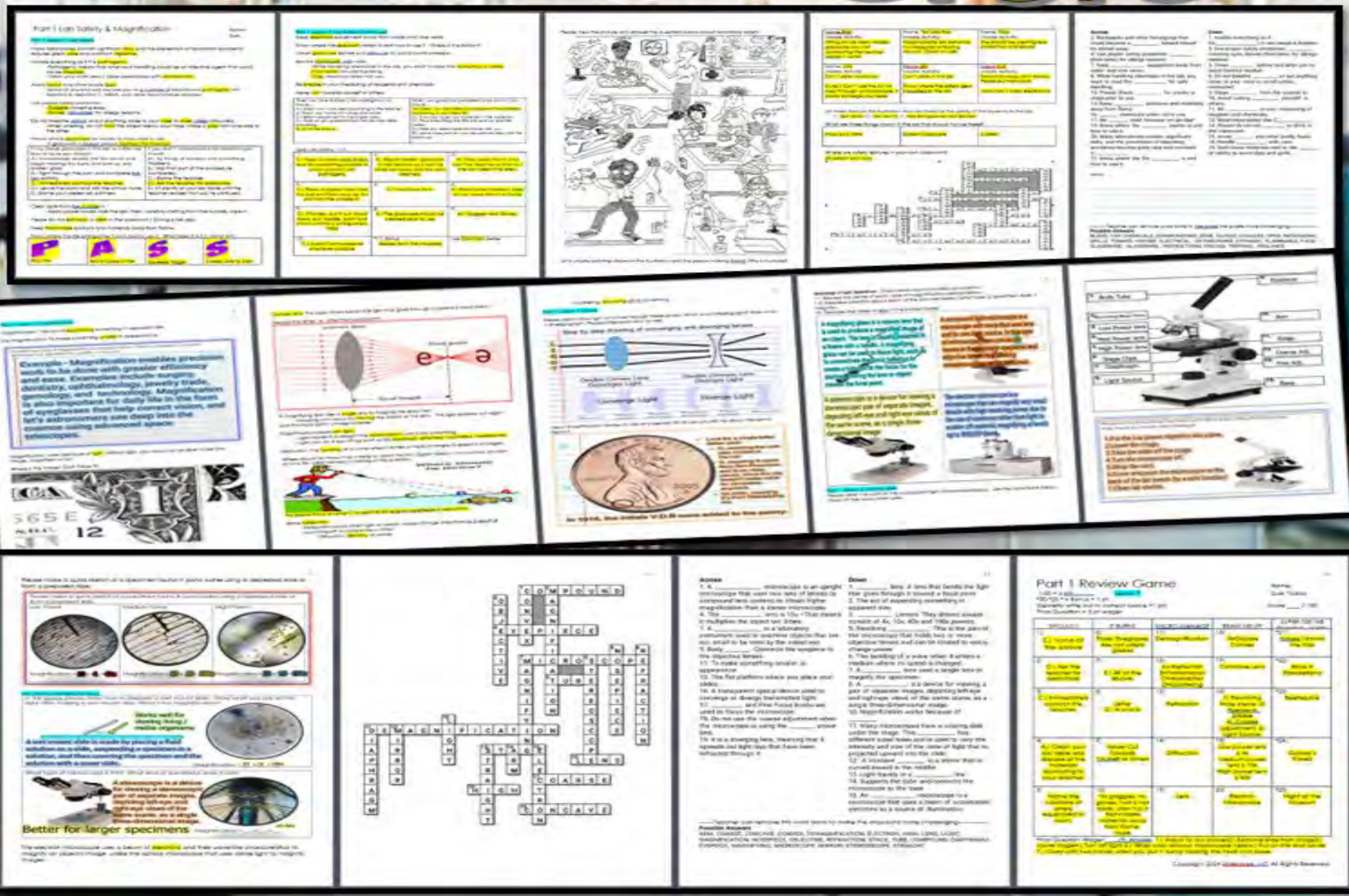
Score: ___ / 100

SHOULD I	I BURNS	MICRO MANAGE	BEAM ME UP	SUPER SIZE ME (Secret word - 20 pts)
1)	6)	11)	16)	*21)
2)	7)	12)	17)	*22)
3)	8)	13)	18)	*23)
4)	9)	14)	19)	*24)
5)	10)	15)	20)	*25)

Final Question Wager ___ (?) Answer: _____

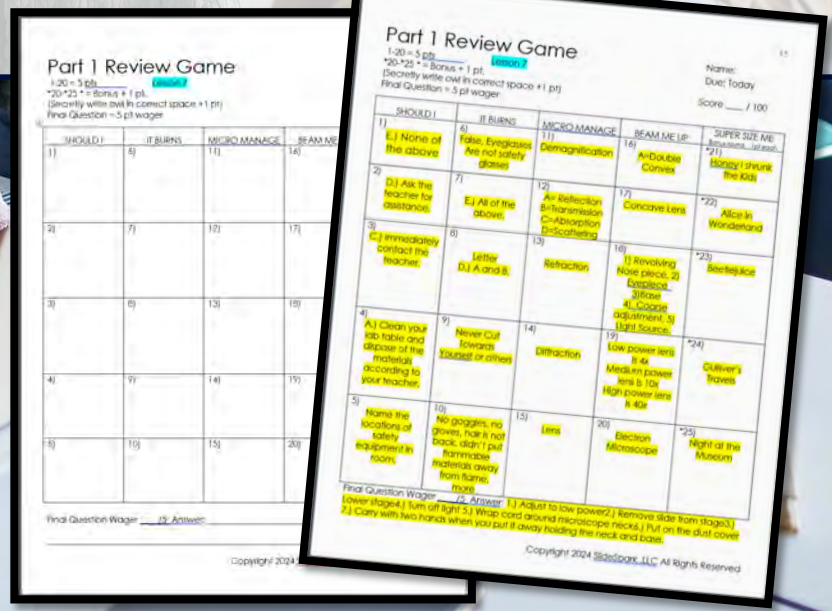


Answer Version

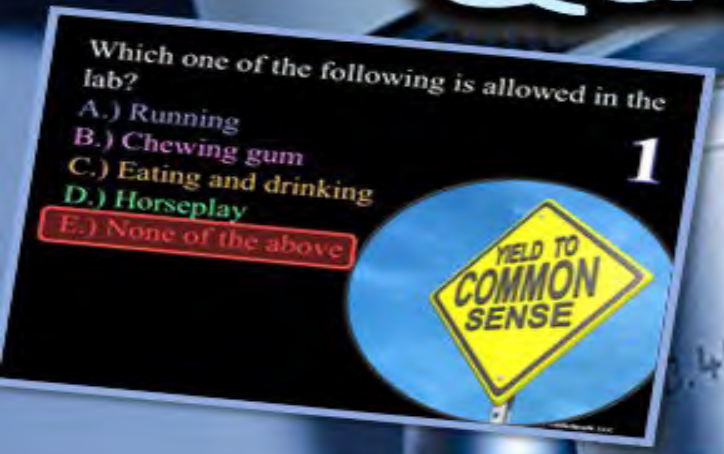


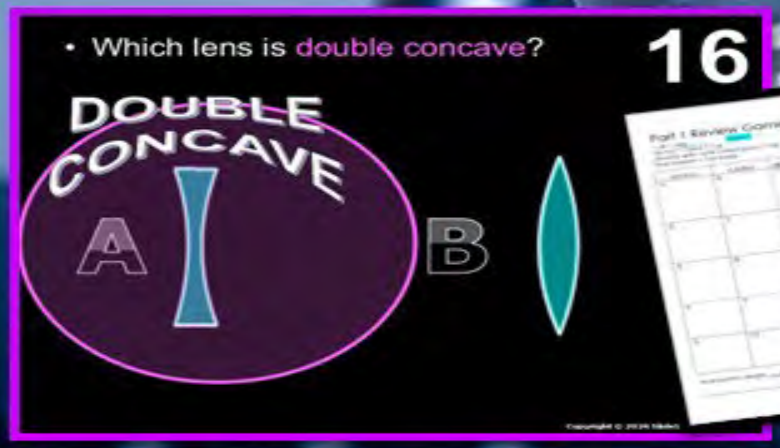
Review Games / Assessments

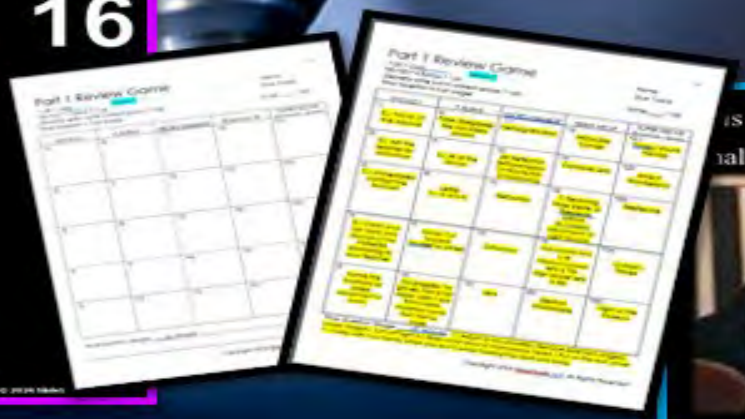
This unit concludes with a review quiz. Answers are provided in slideshow form so students can self assess. A blank template sheet is provided in the work bundle. Students can benefit from working together in small table groups with quiet communication. You can decide if you want to allow the use of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



Lab Safety and Magnification Unit Quiz Game







Please write the name of at least three pieces of safety equipment that can be found in the lab. Draw an arrow to where they are found from your current seat?

If you break glassware in the lab or suffer any kind of injury you should…

3

A.) Immediately access the first aid kit and begin treating the injury and pick up any broken glass.
B.) Fight through the pain and complete the lab activity.
C.) Immediately contact the teacher.
D.) Leave the room and visit the school nurse.
E.) Blame your useless lab partners.

List some lab safety infractions below.
1 Point each

10

How could this have been avoided?
A.) Keep flammable materials away from flame.
B.) Keep your hair back.
C.) Avoid spontaneous combustion.
D.) A and B.
E.) All the above.
F.) None of the above.

All unauthorized experiments are prohibited.

If you don't understand a lab direction you should…

2

A.) Try things at random until something happens.
B.) Skip that part of the procedure completely.
C.) Blame your useless lab partners.
D.) Ask the teacher for assistance.
E.) Sit silently at your lab table until the end of class.

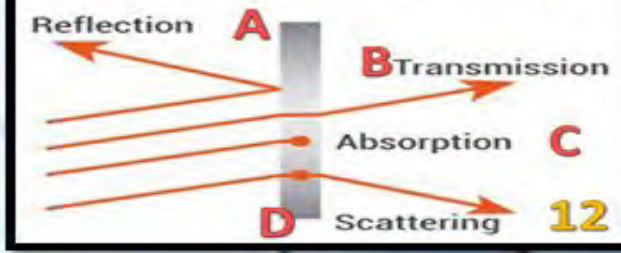
- This involves a change in direction of waves as they pass through an opening or around a barrier in their path.

Diffraction 14

This is the name for an optical device used to converge or diverge transmitted light?

LENS 15

Which is Absoprtion, scattering, reflection, transmission,



When your group has compl[illegible] lab activity you should…

4

A.)
B.)
C.)
D.)
E.)

- Which mirror is convex?

CONVEX 17

Name at least four steps you should take when putting a microscope away?

1.) Adjust to low power
2.) Remove slide from stage
3.) Lower stage
4.) Turn off light
5.) Wrap cord around microscope neck
6.) Put on the dust cover
7.) Carry with two hands when you put it away holding the neck and base.

Name the parts of the microscope below 18

1) Revolving Nose piece, 2) Eyepiece 3)Base
4) Coarse adjustment, 5) Light Source.

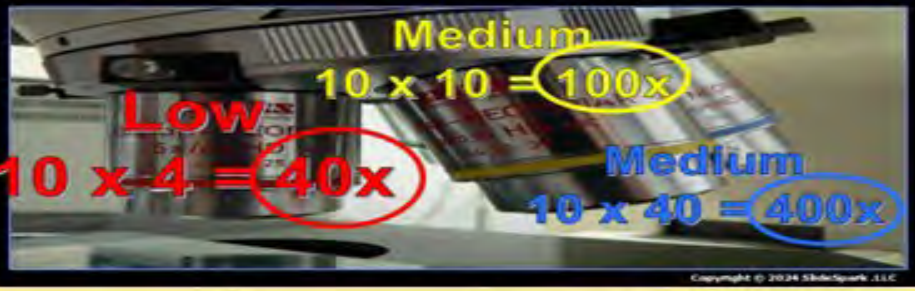
What type of microscope is shown below.

It uses a beam of negatively charged particles and their wave-like characteristics to magnify an object's image, unlike the optical microscope that uses visible light to magnify images.

20

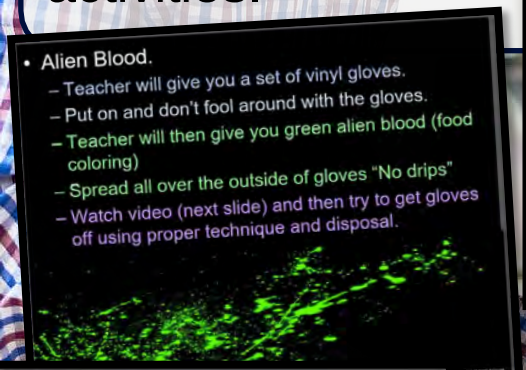
- The eyepiece lens is 10x – What's an objects magnification under Low, Medium, and High power based on the microscope below.
  - Low power lens is 4x
  - Medium power lens is 10x
  - High power lens is 40x

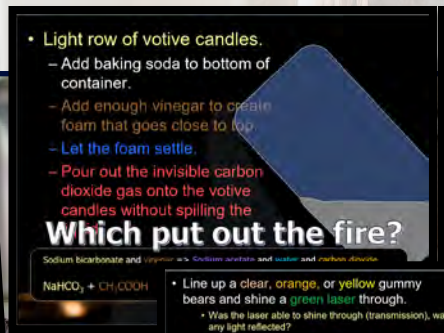
19

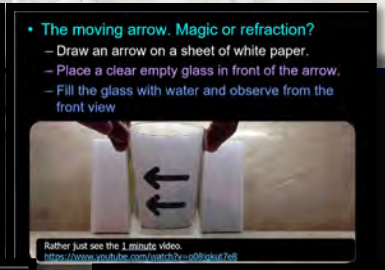


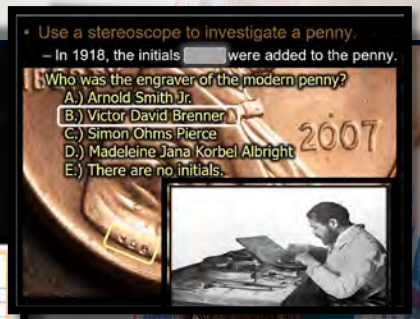
Activities / Labs

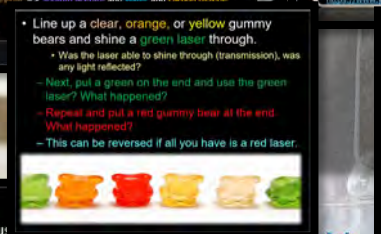
Our science activities are designed to help students explore and understand complex scientific concepts in an engaging and interactive way. Each science unit includes several hands-on activities that encourage students to collect data and think critically about the world around them. Our easy-to-follow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





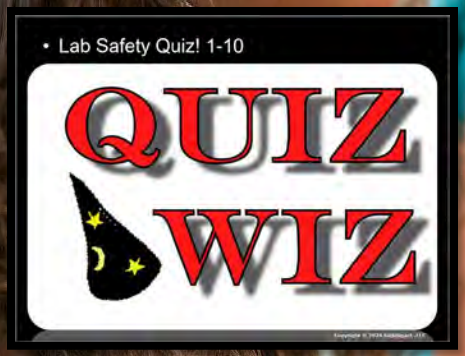


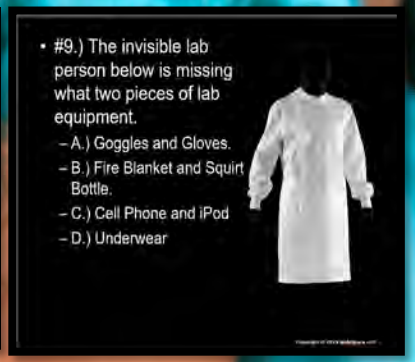


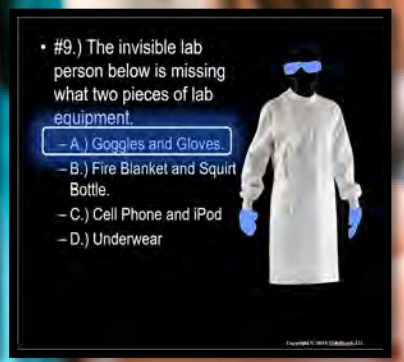


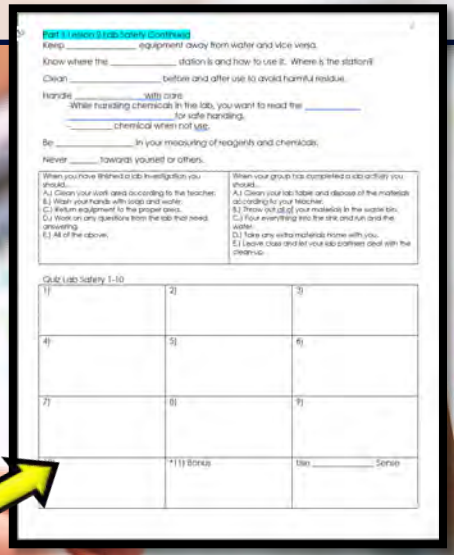
Built-in Assessment

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.





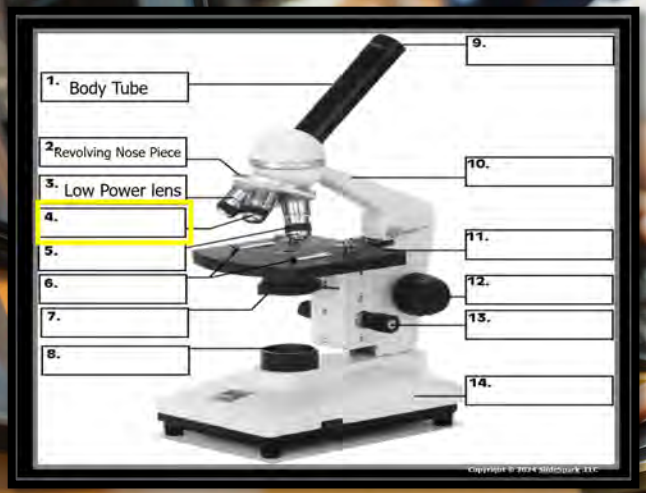


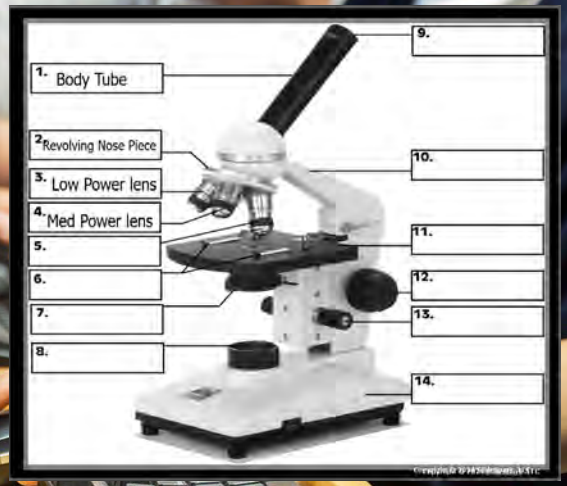


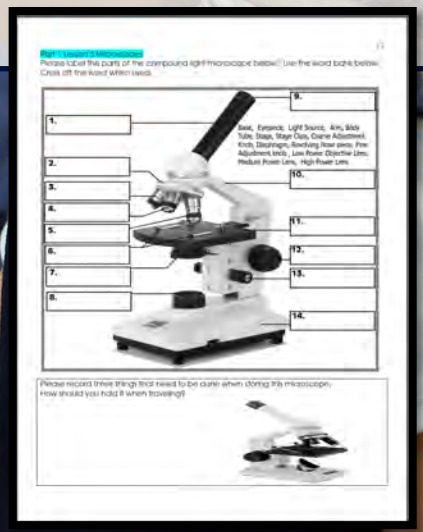
Questions in Work Bundle

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.

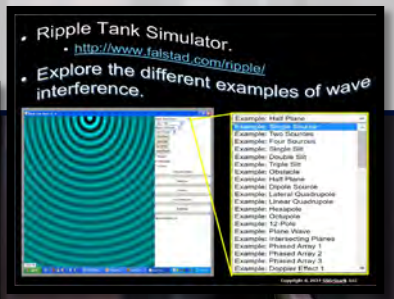






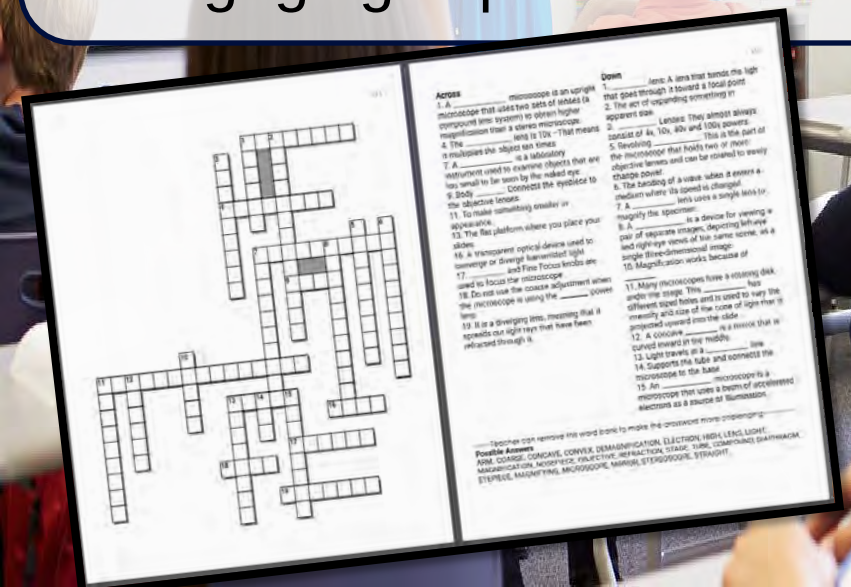
Built-in Video Links

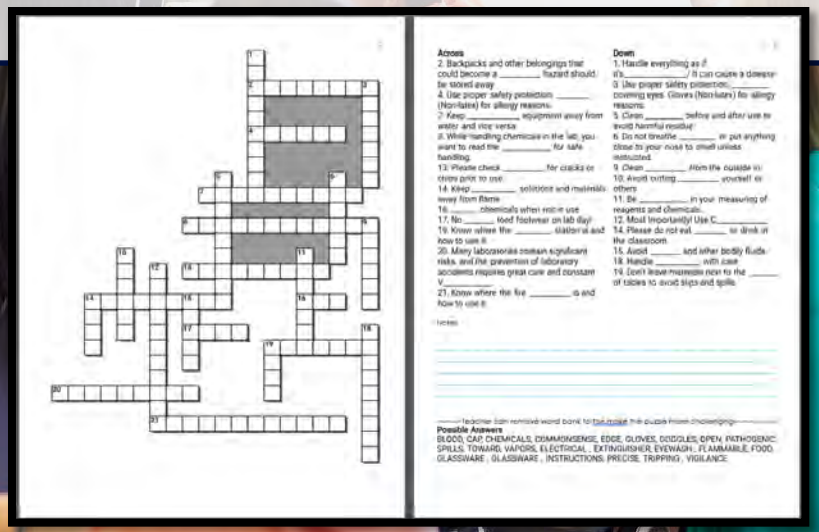
Our science education program is designed with the modern, multimedia learner in mind, and our video links are a perfect complement to our educational materials. These short clips are embedded into the slideshow at just the right places for a fantastic review. Whether you're studying biology, chemistry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

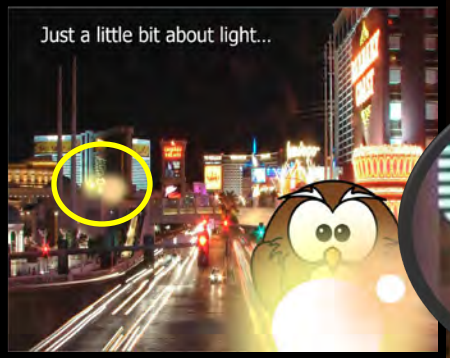


Games and Review

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.



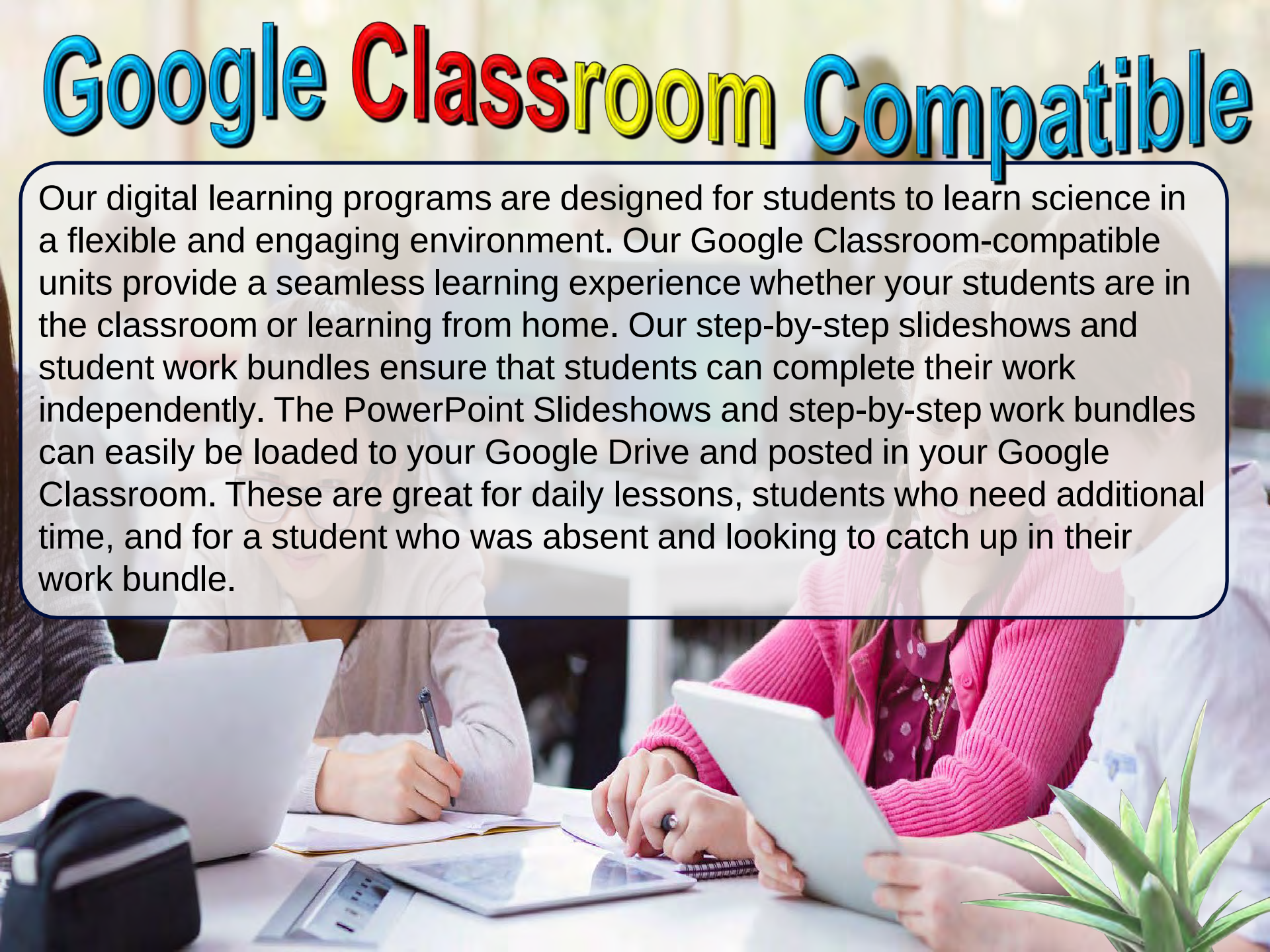




The Owl - Each Part of the slideshow has a small clipart Owl hiding somewhere in a slide. The owl is incredibly small and blended into just the right slide. If a student spots the “Owl” they can raise their hand high into the air. When you call upon the student they can say “Owl" and be the student who 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 1 Lesson 4 Optics

Google Slides

Part 1 Lesson 3 Magnification

Google Slides

Part 1 Lesson 1 Lab Safety

Google Slides

Part 1 Lesson 7 Review Game

Google Slides

Part 1 Lesson 6 Microscope ...

Google Slides

Part 1 Lesson 5 Microscope ...

Google Slides

Part 1 Lesson 2 Lab Safety a...

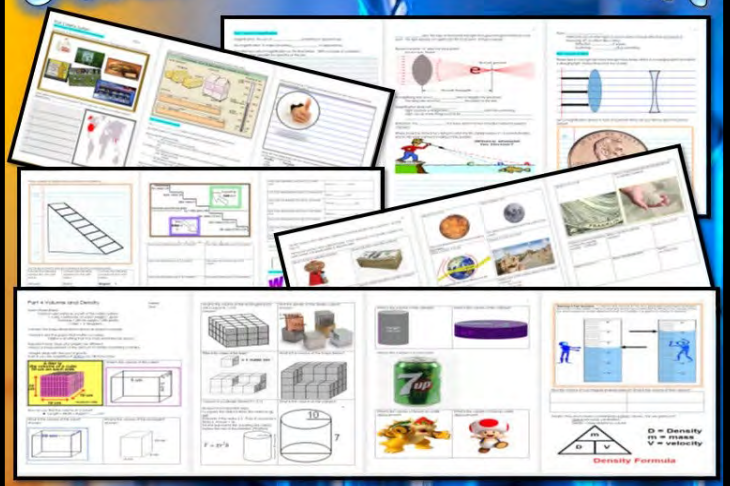
Google Slides

Science Skills Unit

Areas of Focus within the Science Skills Unit: Lab Safety and Magnification: Lab Safety, Ways to be Safe in the Lab, Lab Safety Equipment and how to use it, Building a Mini Fire Extinguisher Activity, Lab Safety Quiz and Contract, Magnification, Demagnification, Light Transmission, Absorption of Light, Reflection, Scattering, and Interference, Refraction, Diffraction, Optics, Convex Lens, Concave Lens, Converging and Diverging of Light, Microscopes, Stereoscopes, Hand Lenses, Electron Microscopes, Compound Light Microscopes, Parts of a Compound Microscope, Microscope Parts Quiz, Using a Microscope and Microscope Safety, Pond Life Study, US US Customary Units that are Familiar and their Metric Equivalents, Introduction to the International Systems of Units, Why the SI System is stronger, One Unit for each measure for each quantity, Prefixes and Scale, Decimal Based System, SI Conversions, Conversions of all types, SI Notation, Base Unit Prefixes, Using the Prefixes, Measuring, The seven SI Base Units, Temperature, Temp Conversions, Mass, Time, Speed, Velocity, and other Base Units. 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, Density Quiz, What is Science?, What makes a Good Scientist, Follow Procedures, Building a Lego Vehicle Activty / Making a Procedure Activity, Types of Scientists, Observation, Inferences, Scientific Method, what is Science? What makes a good scientist? Types of Scientists, Inquiry Box Activity, Branches of Science, Scientific Method, Types of Variables, Importance of Control Group, Hypothesis, Graphing, Types of Graphs, Observations, Learning to be a Good Observer, Making Inferences, Stem Gall Fly Activity, Crime Scene Activity, Listening Trial Study

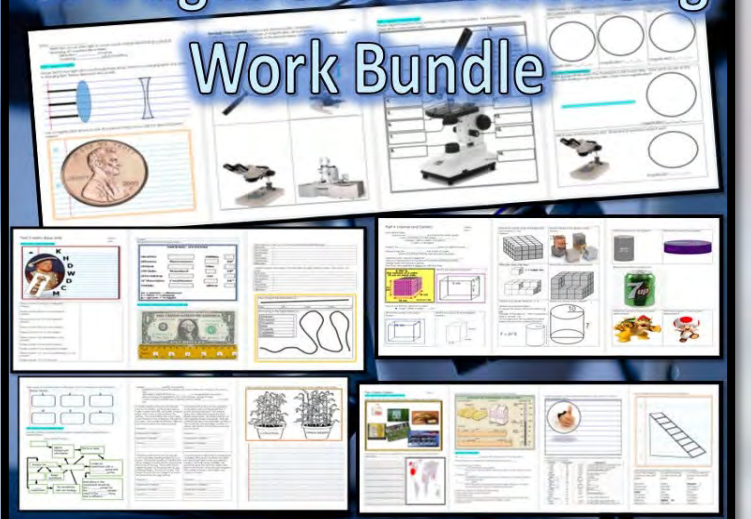
Science Skills Unit

Science Skills Unit



5 Parts, 30 Lessons

67 Pages of Follow Along Work Bundle



Exciting Activities

Thousands of Interactive Slides

Assessments, Games, Video Links, and more

Everything you need to run an amazing learning experience

Part 1 Lab Safety and Magnification: Lab Safety, Ways to be Safe in the Lab, Lab Safety Equipment and how to use it, Building a Mini Fire Extinguisher Activity, Lab Safety Quiz and Contract, Magnification, Demagnification, Light Transmission, Absorption of Light, Reflection, Scattering, and Interference, Refraction, Diffraction, Optics, Convex Lens, Concave Lens, Converging and Diverging of Light, Microscopes, Stereoscopes, Hand Lenses, Electron Microscopes, Compound Light Microscopes, Parts of a Compound Microscope, Using a Microscope and Microscope Safety, Pond Life Study

Part 1: Science Skills Unit

Part 1 Lesson 1 Lab Safety

Part 1 Lesson 2 Lab Safety and Quiz

Part 1 Lesson 3 Magnification

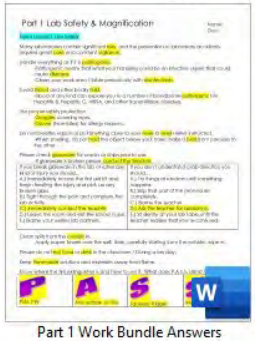
Part 1 Lesson 4 Optics

Part 1 Lesson 5 Microscope Quiz

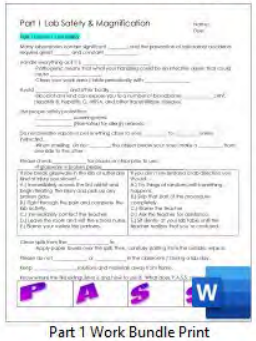
Part 1 Lesson 6 Microscope Wrap Up

Part 1 Lesson 7 Review Game

Part 1 Lesson 8 Review Game Answers



Part 1 Work Bundle Answers



Part 1 Work Bundle Print

Part 2: US Customary Units that are Familiar and their Metric Equivalents, Introduction to the International Systems of Units, Why the SI System is stronger, One Unit for each measure for each quantity, Prefixes and Scale, Decimal Based System, SI Conversions, Conversions of all types, SI Notation, Base Unit Prefixes, Using the Prefixes, Measuring, The seven SI Base Units, Temperature, Temp Conversions, Mass, Time, and other Base Units.

Parts 2 and 3: Science Skills Unit

Part 2 Lesson 1 Metric Intro

Part 2 Lesson 2 Metric System Ten

Part 2 Lesson 3 Metric Conversions

Part 2 Lesson 4 SI Notation

Part 2 Lesson 5 Review Game

Part 2 Lesson 6 Review Game Answers

Part 2 Work Bundle Answers

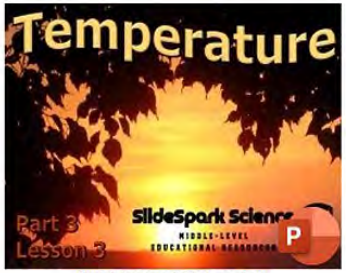

Part 2 Work Bundle Print

Parts 2 and 3: Science Skills Unit: US US Customary Units that are Familiar and their Metric Equivalents, Introduction to the International Systems of Units, Why the SI System is stronger, One Unit for each measure for each quantity, Prefixes and Scale, Decimal Based System, SI Conversions, Conversions of all types, SI Notation, Base Unit Prefixes, Using the Prefixes, Measuring, The seven SI Base Units, Temperature, Temp Conversions, Mass, Time, Speed, Velocity, and other Base Units.

Parts 2 and 3: Science Skills Unit

Part 3 Lesson 1 Prefixes

Part 3 Lesson 2 Measuring



Part 3 Lesson 3 Temperature

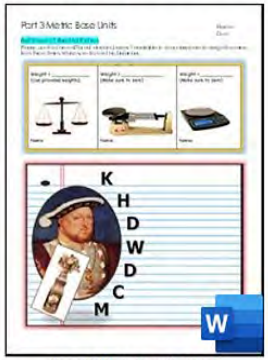
Part 3 Lesson 4 Time other SI Units

Part 3 Lesson 5 Mass and Volume

Part 3 Lesson 6 Review Game

Part 3 Lesson 7 Review Game Answers

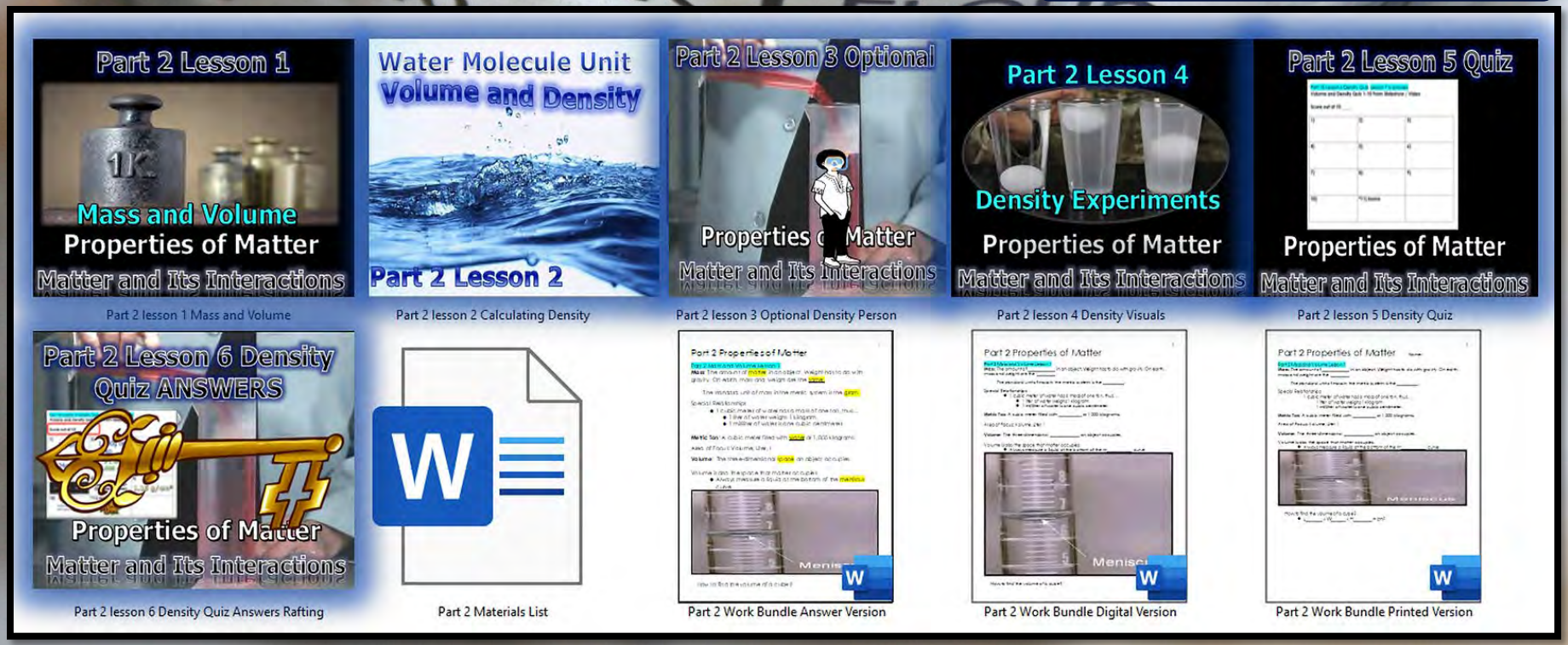
Part 3 Work Bundle Answers



Part 3 Work Bundle Print

Part 4: 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, Density Quiz

Part 4: Science Skills Unit



What is Science?, What makes a Good Scientist, Follow Procedures, Building a Lego Vehicle Activity / Making a Procedure Activity, Types of Scientists, Observation, Inferences, Scientific Method, what is Science? What makes a good scientist? Types of Scientists, Inquiry Box Activity, Branches of Science, Scientific Method, Types of Variables, Importance of Control Group, Hypothesis, Graphing, Types of Graphs, Observations, Learning to be a Good Observer, Making Inferences, Stem Gall Fly Activity, Crime Scene Activity, Listening Trial Study

Part 5: Science Skills Unit

Part 5 Lesson 1 Sci Method

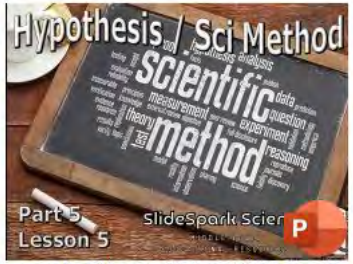
Part 5 Lesson 2 Procedure Lego

Part 5 Lesson 3 Variables

Part 5 Lesson 4 Graphing

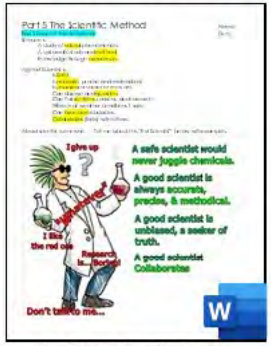
Part 5 Lesson 5 Observation

Part 5 Lesson 6 Obs Cont



Part 5 Lesson 7 Soda and Rafting

Part 5 Lesson 8 Times Have Changed


Part 5 Work Bundle Answers


Part 5 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

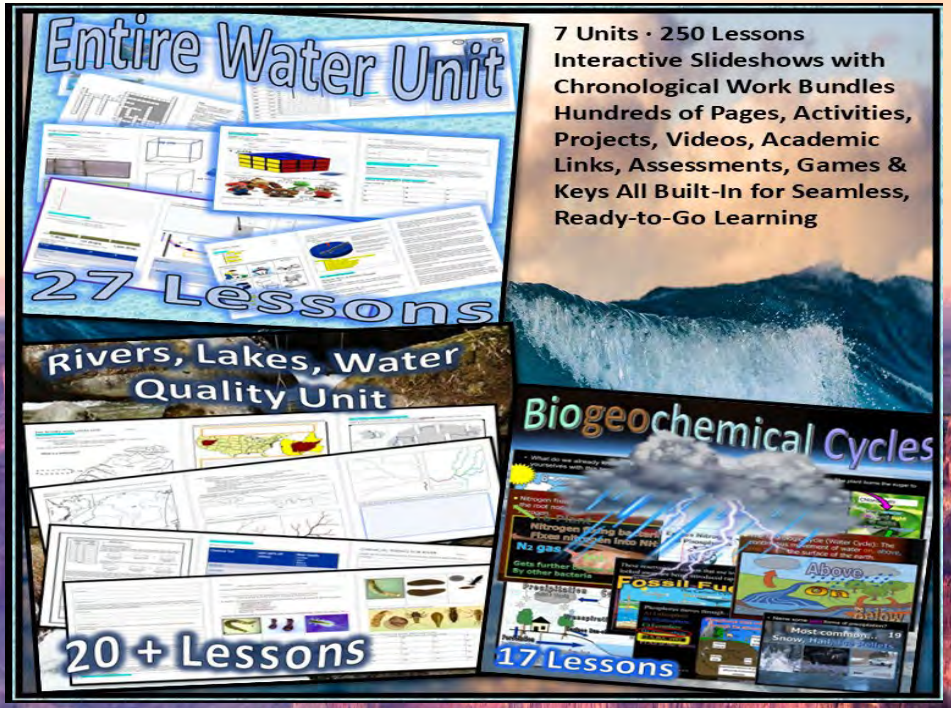
Earth Science Units	Daily Lessons	Intended Grade	
Geology Topics Unit	60 Lessons	6-8 medium difficulty	MORE DIFFICULT
Weather and Climate Unit	40 Lessons	6-8 medium difficulty	MORE DIFFICULT
Astronomy Unit	60 Lessons	6-8 medium difficulty	MORE DIFFICULT
Weathering, Soil Sciences	28 Lessons	5-7 easier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

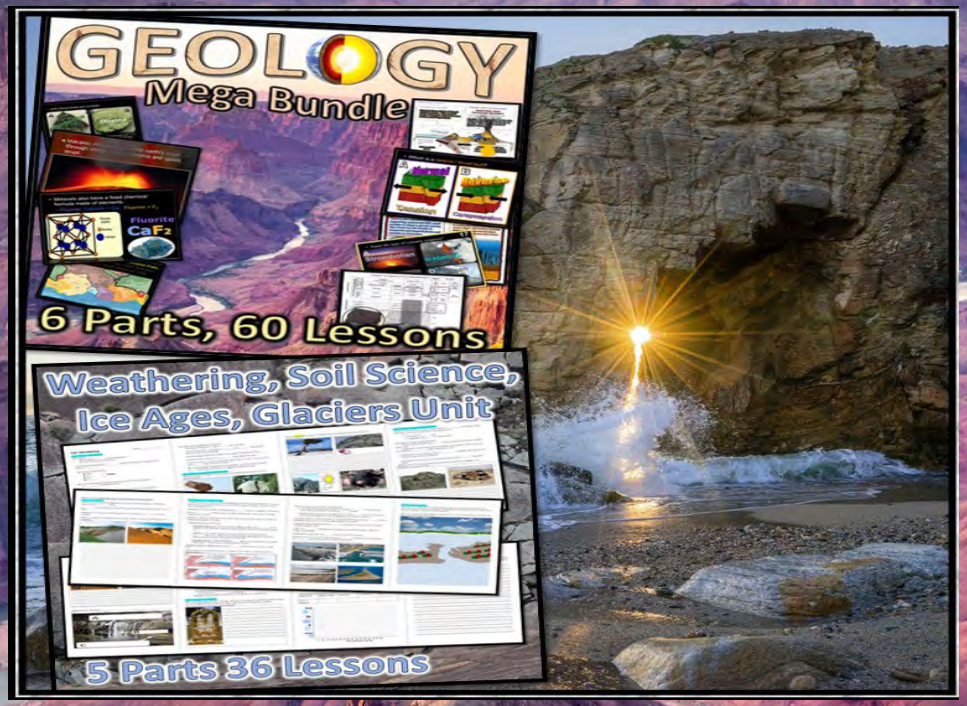
Earth Science Curriculum

Earth Science Curriculum

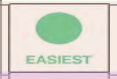
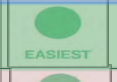
SlideSpark Science

MIDDLE-LEVEL EDUCATIONAL RESOURCES



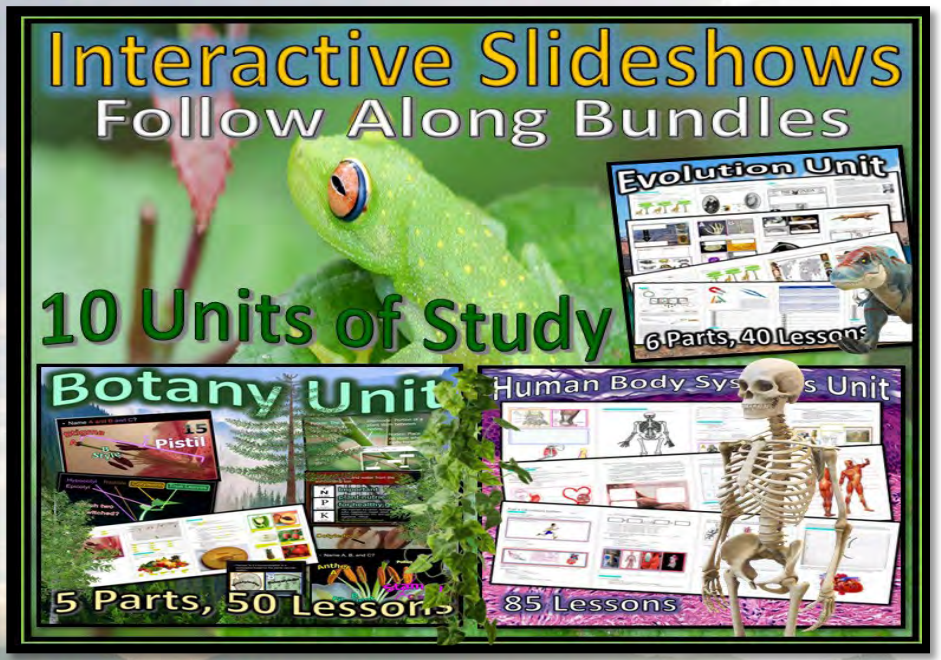


Life Science Units

	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	

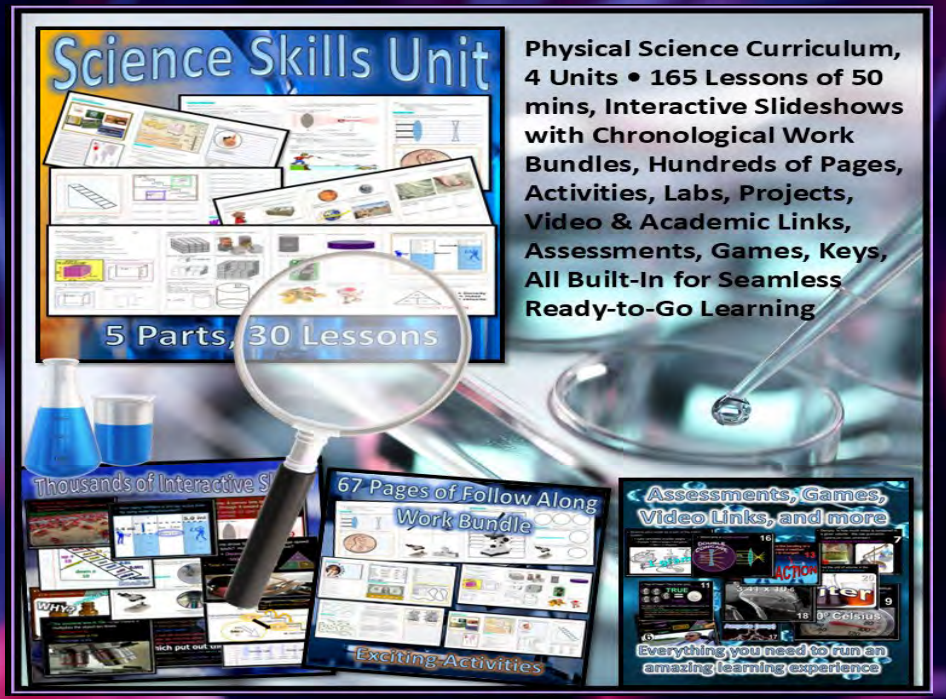
Physical Science Curriculum

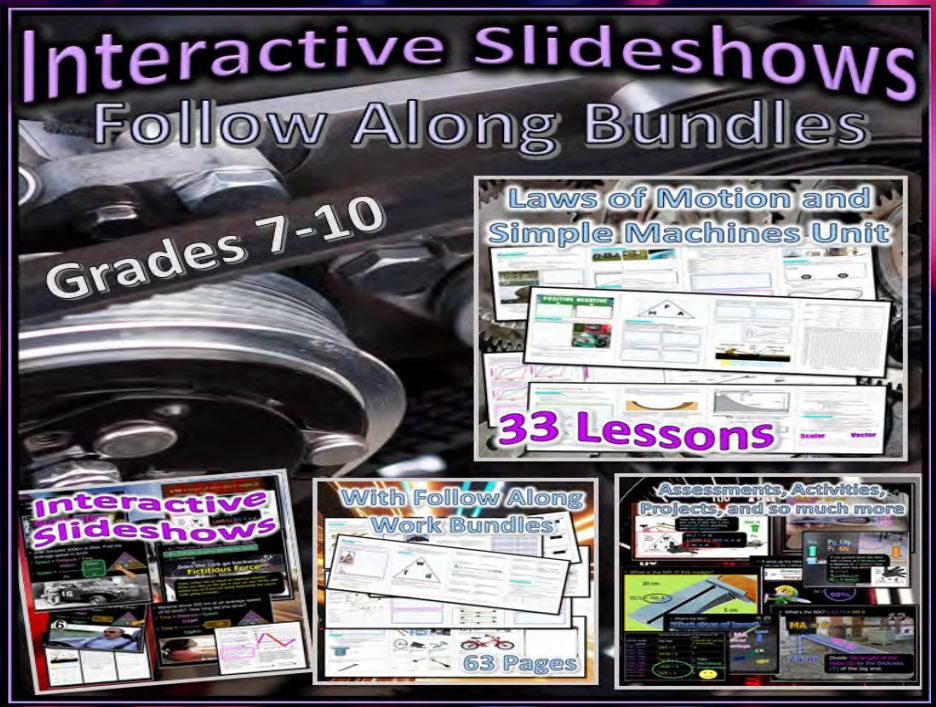
Entire SlideSpark Science Curriculum

Physical Science Curriculum

SlideSpark Science

MIDDLE-LEVEL EDUCATIONAL RESOURCES





Dear Valued Educator,

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

With appreciation,

Support@SlideSpark.net

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

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