### Respiratory vstem Un



C6H12O6 + 6O2 → 6 CO2 + 6H2O + energy

- Vaping causes this serious lung disease.
  - Diacetyl vapor causes bronchiolitis obliterans. This is scarring of the tiny air sacs in the lungs.





#### Bronchi

Bronchi: Two primary divisions of the trachea that lead respectively into the right and the left

- when oxygen is absent or scarce. (Annerobic)
- · This is a form of cellular respiration that requires oxygen in order to generate energy. (Aerobic)





· Lung Capacity Available Sheet







Alveoli: Any of the many tiny air sacs in the lungs where the exchange of en and carbon dioxide takes place.

Lessons

Interactive Slideshows



Cartilage rings



 One JUUL pod (59 milligrams of nicotine) contains the same amount of nicotine as about this many cigarettes.

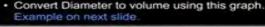
- A.) I cigarette

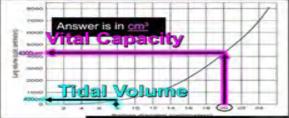
B.) 10 cigarettes

(\*) 20 eigarelles (a pack

- D.) 200 eigarettes

E.) 2,000 ciga tte





Lungs consist of two elastic sacs with branching passages into which air is drawn, so that can pass into the blood and be removed.



carbon dioxide takes place.

 Diaphragm: Dome shaped muscle and membranous partition that separates the abdominal and thoracic cavities.

Serves as a major muscle aiding inhalation.

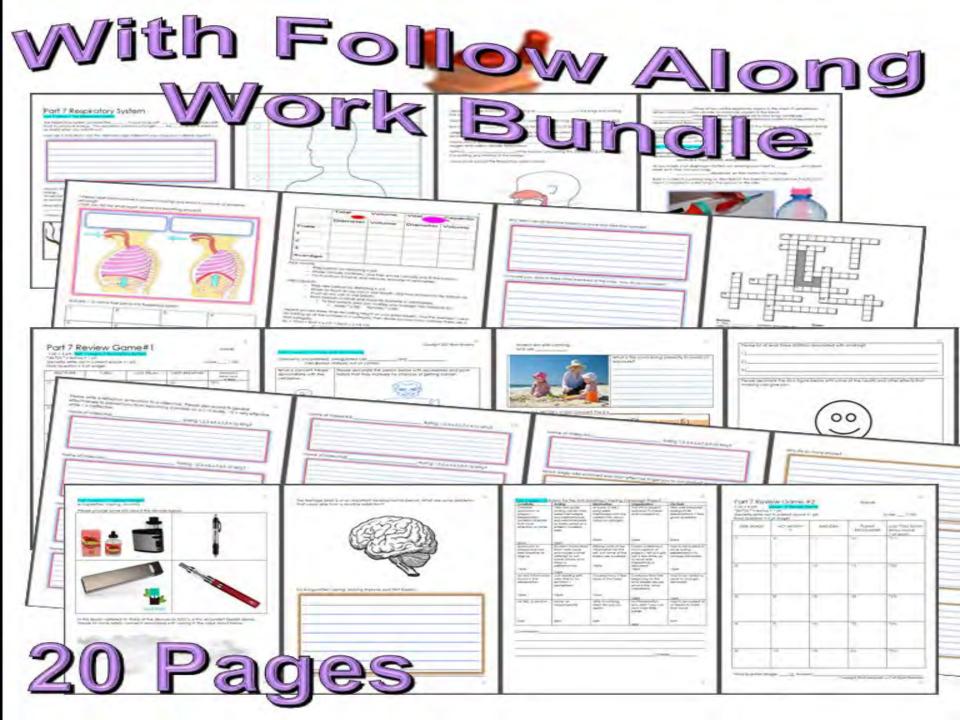




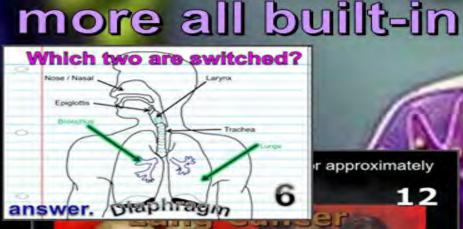
#### Tidal Volume:

- Prep balloon by stretching it out.
- Inhale normally (NORMAL) and then exhale normally and fill the balloon.

Repeat process three times recording height on your spreadsheet. Find the average / mean by adding up all the numbers in a category, then divide by how many numbers there are in that category.

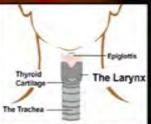


#### Activities, Notes, Review, Assessments, Games, and



 Larynx: The hollow muscular organ forming an air passage to the lungs and holding the vocal cords.





r approximately

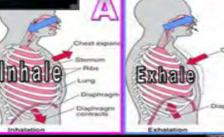
These are any of the many tiny air sacs in the lungs where the exchange of oxygen and carbon dioxide takes place.



That becomes your insides when you smoke.

constriction / the tightening of the muscles surrounding the airways, and inflammation, the swelling and irritation of the airways.







Respiratory System Part 7: 14 Lessons of 50 minutes and 20 Page Follow Along Work Bundle, Respiratory System Basics, Oxygen, Aerobic and Anaerobic Respiration, Functions of the Nose, Step by Step Drawing of the Respiratory System, Exhale, Inhale, Epiglottis, Larynx, Vocal Chords, Sound Production, Trachea, Structure Function, Bronchus, Lungs, Alveoli, Asthma, Diaphragm, Build a Diaphragm Activity, Visual Quiz of the Respiratory System, Answers so Students can Self Assess, Tidal Volume, Vital Capacity, Lab Activity with Breathing and Balloons, Box Game Review, Crossword Puzzle, End Unit Assessment, Answer Version of Assessment so Students can Self Assess, Part 2 of the Unit examines the Dangers Associated with Tobacco Use, What is Cancer?, Lifestyle Choices to help aid in the prevention of Cancer, Skin Cancer, Dangers of Skin Cancer, Ways to avoid UV Exposure, Dangers of Tanning, Abcde's of Understanding Skin Moles and Cancer, Dangers of Smoking, Starting Anti-Tobacco Campaign Project, Dissection of a Typical US Blended Cigarette, Case Study on the Filter and how they don't work, Facts about Smoking, Start of Ad Campaign Portion of Unit, Students watch Anti-tobacco ads and reflect on their usefulness, Visual Tour of some harmful chemical in cigarettes, Full Ingredient List, Nitrosamines, How Chemicals Impact DNA, Visual Tour of the Negative Health Impacts Smoking Can Cause, Stroke, Heart Disease, Smokers Lung vs Non-Smoker, Coating of Alveoli in Tar, Neck Breathers, laryngectomy Laryngectomy, tracheostomy, Emphysema, Chronic Bronchitis, Danger of Second Hand Smoke, Berger's Disease, Hairy Tongue / lingua villosa, Tour of the the nastiest hairy tongues out there, Dangers of Smokeless Tobacco, Mouth and Throat Cancer, Dangers of Smoking while Pregnant, Comparing Twins Study, Vaping, Dangers of Vaping, Popcorn Lung, Wet Lung, A lot Still Unknown, Case Study on JUUL, Nicotine Levels in Vaping / e-juices, Nicotine and the Adolescent Brain, Anti-Tobacco Campaign Projects, Box Game Review, Crossword Puzzle, End Unit Assessment

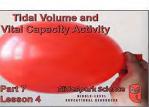


Part 7 Lesson 1 Respiratory System



Part 7 Lesson 2 Organs of Respiratory











Danger of Vapin





Cancer and Anti-Tobacco



Cancer and Anti-Tobacco

Review Game



Part 7 Lesson 11 Smoking Cont III (1)





Part 7 Lesson 13 Campaign and Wrap Up



SlideSpark Science M

Part 7 Sidespendscience W

Part 7 Lesson 14 Review Game

Part 7 Lesson 15 Review Game Answers

Part 7: Respiratory System

Part 7 Work Bundle Answers

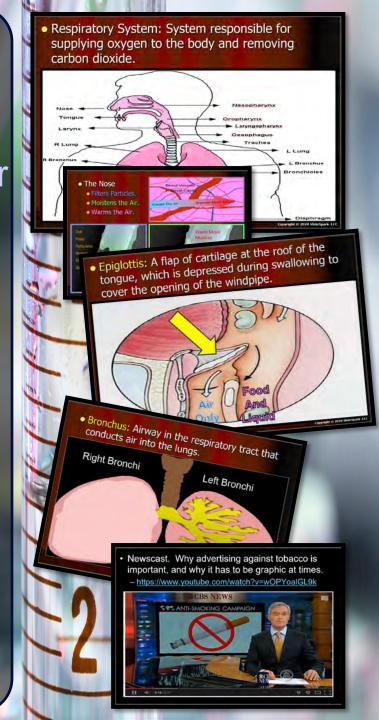
### SlideSpark Science

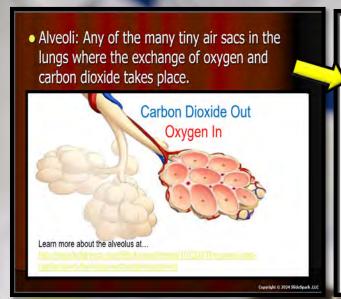
### MIDDLE-LEVEL EDUCATIONAL RESOURCES

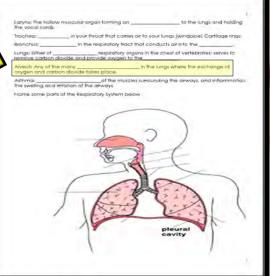


Interactive slideshows provide the roadmap for an amazing learning experience for students in grades 5-9. A Detailed set of work bundles chronologically follow the digital learning, providing a clear and intuitive roadmap to understanding. As the teacher or student advances through a slideshow, exciting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

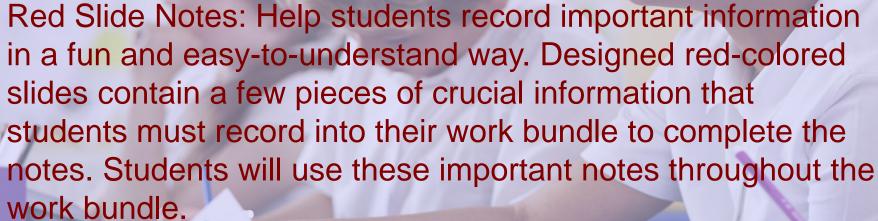
Each unit in the curriculum is designed to help teachers deliver the best possible learning experience for their students. Our interactive science slideshows are filled with questions and answers, important fill-in notes, hands-on activities, projects, games, built-in quizzes, and end of the unit assessment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



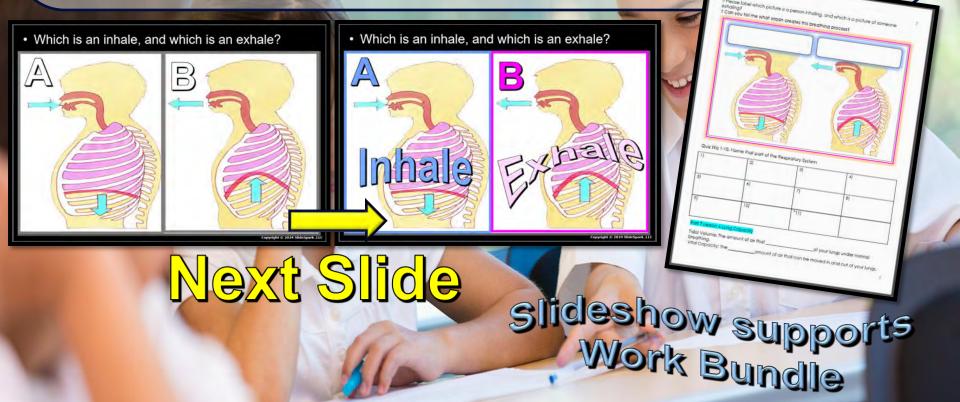








The set-up of the slideshows are designed to make learning fun and interactive for students. With a mix of questions and answers, teachers can use these slides to get their students thinking and actively participating in their education. Plus, the answers are always revealed on the next slide, providing students with immediate feedback and helping teachers assess their understanding.



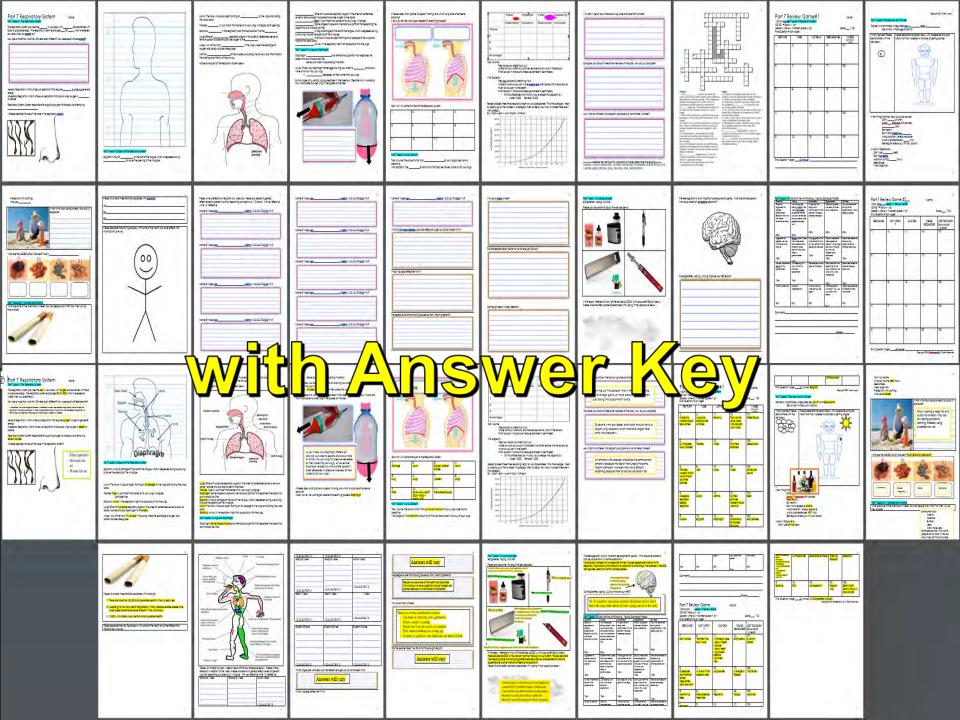
### Lesson Planning

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.



## Follow Along Work Bundle

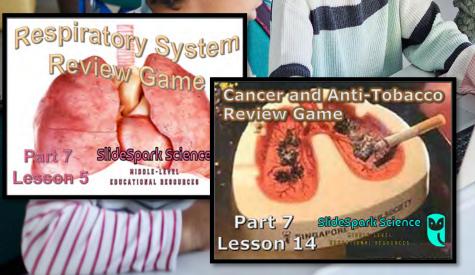
Each science unit comes with several work bundles. The bundles should be printed before the unit begins and distributed to the students on the first day of the unit. The work bundles will be due shortly after the completion of the unit. The work bundle will become a resource for the review games, crossword 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.



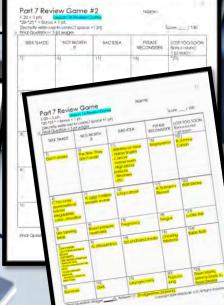
## Review Games / Assessments

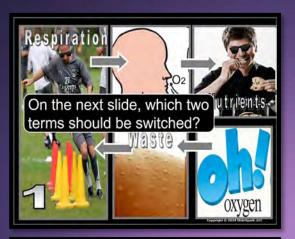
This unit concludes with two review quizzes. Answers are provided in slideshow form so students can self assess. A blank template sheet is provided in the work bundle. Students can benefit from working together in small table groups with quiet communication. You can decide if you want to allow the use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

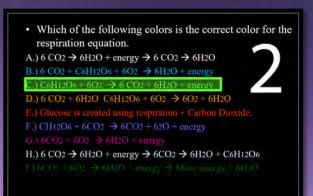
bundles for the answers.



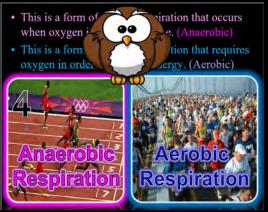


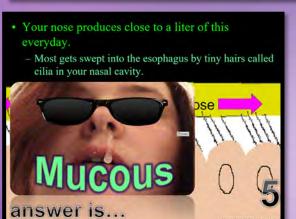


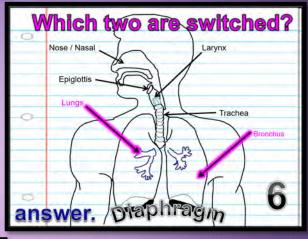








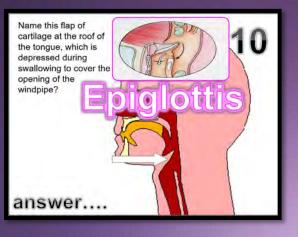


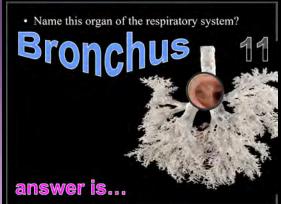












• These are any of the many tiny air sacs in the lungs where the exchange of oxygen and carbon dioxide takes place.



· These are either of two saclike respiratory organs in the chest of vertebrates; serves to remove carbon dioxide and provide oxygen to the blood.



· This is a breathing condition that causes constriction / the tightening of the muscles surrounding the airways, and inflammation, the swelling and irritation of the airways.



· These small sacs that are vital for the exchange of

oxygen and carbon dioxide insides get covered with

· This is the dome shaped muscle and membranous partition that separates the abdominal and thoracic cavities?



This is the term for the maximum amount of air that can be moved in and out of your lungs.

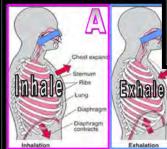
move in and out of your lungs under normal

This is the term for the amount of air that you breathing.



Answer...

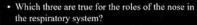
Which is a inhale, and which is a ex



Alveoli Aivec

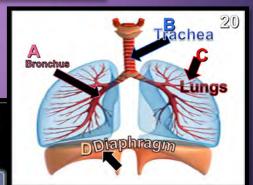
Diaphragm relaxes

tar when you smoke cigarettes?



- · A.) Creates particles, dries the air, cools the air.
- · B.) Creates Air, moves the air, breathes the air.
- · C.) Contains blood, contains the mucous, drips.

E.) The nose does not play a role in the



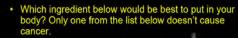












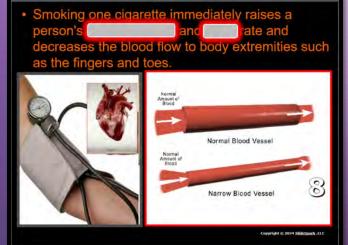
- · 1) Cadmium
- · 2) Methane
- 3) Nicotine
- 4) Dioxins
- 5) Ammonia
- 6) Methanol
- 7) Toluene
- 8) Hexamine
- 9) Arsenic10) Butane
- · Bonus \*Polonium

- 11) Lead
- 12) DDT
- 13) Mercury
- 14) Acetone
- 15) Hydrogen Cyanide
- Urethane
- 18) Formaldehdye
- 19) Carbon Monoxide
- 20) Road Tar

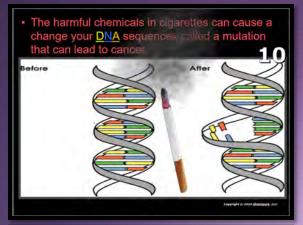


















 Even if you don't smoke, this type of smoke also increases frequency of colds, ear infections, and sudden infant death syndrome (SIDS)



 This is the name for the procedure where a smokers voice box needs to be removed because of smoking.

- They now breathe directly through their trachea.

- A.) Appendectomy
- B.) Neck Removal
- C.) Laryngectomy
- D.) Gastroectomy
- E.) Lung Injection



15

 Smoking tobacco can cause an overgrowth of dead skin cells, causing lengthening of the papillae on this part of your body.



- · This type of tobacco use can cause oral cancers.
  - More than 34,000 Americans will be diagnosed with oral cancer this year.
    - · Of those 34,000 newly diagnosed individuals, only half will be alive in 5 years.
    - · It will cause over 8,000 deaths, killing roughly 1 person per hour, 24 hours per day.



· This is an abnormal condition of the lungs marked by decreased respiration

must hack it up or

To Breathe

- Massive mucous by drown in their own - A.) Lung Cancer
- B.) Throat Cano

16 - C.) Emphysema - E.) Colon Cancer s Oxygen Tank

- Smoking creates poor blood circulation. Many smokers blood vessels develop infection and the person doesn't die, but requires an amputation.
- This disease is known as...
- A.) Buerger's Disease
- B.) COPD
- · C.) Stroke
- · E.) Esophageal Cancer



- Vaping causes this serious lung disease.
- Diacetyl vapor causes bronchiolitis obliterans. This is scarring of the tiny air sacs in the lungs.



- Wet Lung Danger
  - Hypersensitivity pneumonitis, sometimes called wet lung, an inflammation of the lungs due to an allergic reaction to chemicals or dust.
  - Requires a mechanical ventilator (respirator) to breathe until lungs can recover



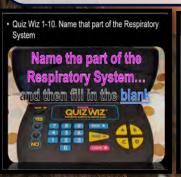
### Activities / Labs

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



## Built-in Assessment

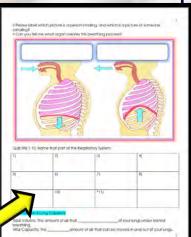
Each unit contains several built-in assessments that students answer in their work bundle. With the question revealed before the answer, the teacher can easily call on individual students or table groups to respond. These provide an effective and efficient way for teachers to assess student learning.











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

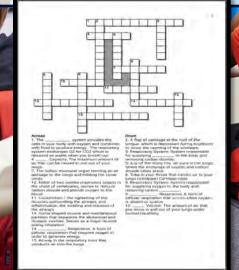
excellent way to reinforce your learning.

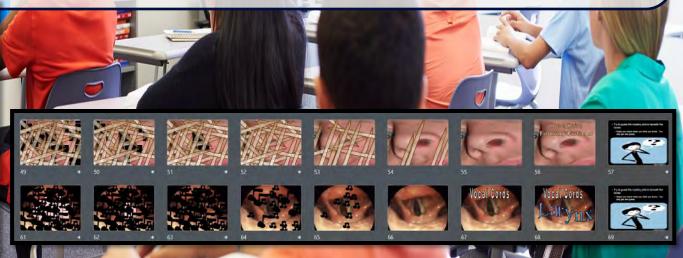


· Optional Video (Harder)

## 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.



### 50 Minutes Each



Part 7 Lesson 1 Respiratory ...
Google Slides



Part 7 Lesson 2 Organs of R... Google Slides



Part 7 Lesson 6 Review Gam...
Google Slides



Part 7 Lesson 5 Review Game Google Slides



Part 7 Lesson 4 Lung Capcit...
Google Slides



Part 7 Lesson 3 Lungs Diaph... Google Slides



Part 7 Lesson 10 Smoking C...
Google Slides



Part 7 Lesson 9 Smoking Co...
Google Slides



Part 7 Lesson 8 Smoking an...
Google Slides



Part 7 Lesson 7 Cancer and ...
Google Slides



Part 7 Lesson 14 Review Ga...
Google Slides



Part 7 Lesson 13 Campaign ... Google Slides



Part 7 Lesson 12 Vaping Dan...
Google Slides



Part 7 Lesson 11 Smoking C... Google Slides

# Built-in Questions and Assessments Many clides will have relevant terms covered with a box. When advancing through

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.



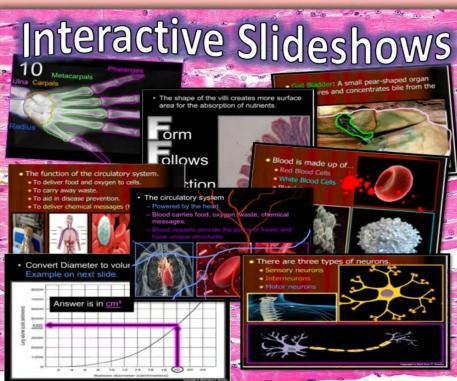


Human Body Systems and Health Topics Unit 85 Lessons and 11 Parts. (6<sup>th</sup>- 8<sup>th</sup> Medium Difficulty).

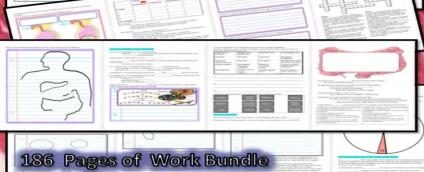
Part 1 is about Levels of Biological Organization and has 5 Lessons and 11 Page Work Bundle. Part 2 is about the Skeletal System and has 7 Lessons and 13 Page Work Bundle. Part 3 is the Muscular System and contains 4 Lessons and 10 Page Work Bundle. Part 4 about Health and Nutrition and has 12 Lessons and 25 Page Work Bundle. Part 5 is the Digestive System and has 8 Lessons and 15 Page Work Bundle. Part 6 is the Circulatory and Lymphatic System and has 8 Lessons and 15 Page Work Bundle. Part 7 is the Respiratory System and has 14 Lessons and 20 Page Work Bundle. Part 8 is about the Excretory System and has 4 Lessons and 9 Page Bundle. Part 9 is the Nervous System and has a 13 Lessons and 21 Page Work Bundle. Part 10 is the Endocrine and Human Reproductive System and has 11 Lessons and 19 Page Work Bundle. Part 11 is about the Human Immune System and is 4 Lessons and 10 Page Work Bundle.





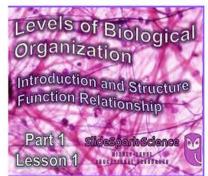




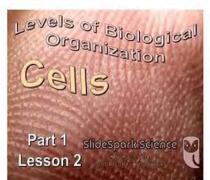


Human Body Systems Unit Part 1 Download: 5 Lessons of 50 Minutes and 11 Page Follow Along Work Bundle, For fun Quiz to see if student can name some Human Organs, Answers to the Quiz, Description of Anatomy, Introduction to Concept Form Follows Function, Describe how a classroom tool demonstrates Form Follow Function Activity, Description of Physiology, History of Anatomy, Body Part Name Game, Levels of Biological Organization, Cellular Organelle, Cell, Tissue, Organ, Organ System, Individual, Looking at Cheek and Onion Cells Under the Microscope, Differences between Plant and Animal Cells, Multi-cellular vs. Unicellular, Cells as the Unit of Structure of Function, Different Types of Cells in the Human Body, Tissues in the Human Body, Identifying Some Common Organs in the Human Body Visual Diagram, Organ Systems in the Human Body, Visual Quiz that Names a Level of Biological Organization, Answers to Quiz, Homeostasis, Homeostasis Activity with Pulse and Stand in Place Exercise, Box Game Review, Crossword Puzzle, End Unit Assessment

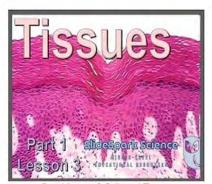
#### Part 1: Levels of Biological Organization



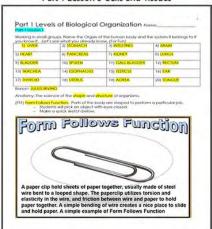
Part 1 Lesson 1 Intro Structure Function



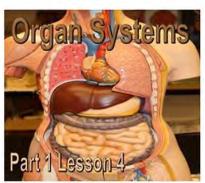
Part 1 Lesson 2 Levels and Cells



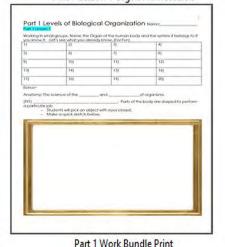
Part 1 Lesson 3 Cells and Tissues

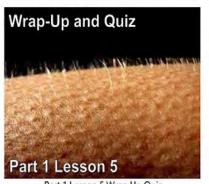


Part 1 Work Bundle Print Answers



Part 1 Lesson 4 Organ Homeostasis





Part 1 Lesson 5 Wrap Up Quiz



Part 1 Lesson 6 Quiz Answers

Part 2: Skeletal System : 7 Lessons 50 Minutes and 13 Page Follow Along Work Bundle, Bones and Living, Types of Bone Cells, Periosteum, # of Bones in the Human Body Guessing, Cartilage, Functions of the Skeletal System, Skeletal System and Form Follows Function, Name that Animal based only on its Skeleton Challenge, Bones Protect Vital Organs, Role of the Skull, Traumatic Brain Injury, The Effects of Traumatic Brian Injury, Importance of Seatbelts Crash Test Video, Danger of Repeated Concussions, Chronic Traumatic Encephalopathy, NPR interview with former NFL Player about the dangers of repeated Head Trauma Worksheet, Bones role in Blood Production, Spongey Marrow, Compact Marrow, Red Marrow, Yellow Marrow, Axial Skeleton, Appendicular Skeleton, Groups of Bones, Long Bones, Flat Bones, Short Bones, Irregular Bones, Name that type of Bone Challenge with Visuals, Osteoporosis, Bones and Connective Tissues, Tendons, Ligaments, Tendon or Ligament Visual Quiz with Answers, Building a Working Arm to learn bones, Ligaments, and Tendons, Build a Human with Pile of Bones Puzzle Challenge, Labeling Some common Bones in the Human Body, Bones of the Human Body Visual Quiz with Answers, How the Skeletal Systems Form Follow Function, Types of Joints, Fibrous Joints, Cartilaginous Joints, Synovial Joints, Six Types of Human Joints, Ball and Socket Joint, Ellipsoid Joint, Pivot Joint, Saddle Joint, Gliding Joint, Hinge Joint, Building a Biomechanical Hand Activity, Bones and Ligaments of the Hand, Matching the Joint Review, Common Injuries, Dislocations, Fractures, Sprains, Matching the Sports Injury Visual Activity, Learning Price, Pressure, Rest, Ice, Compress, Elevate, Box Game Review, Crossword Puzzle, End Unit Assessment



Part 2 Lesson 1 Skeletal System Intro

Types of Skeletal Joints



Part 2 Lesson 2 Brain Injury



Part 2 Lesson 3 Bones Tendon Ligament



Building a biomechanical Hand

Part 2 Lesson 5 Skeletal Joints





Part 2 Work Bundle Answers



Part 2 Lesson 6 Review Injuries





Part 2 Lesson 7 Review Game



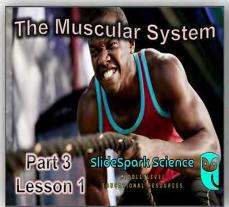
Part 2 Work Bundle Print with Note

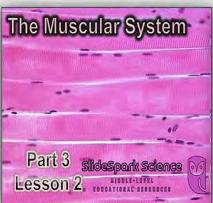


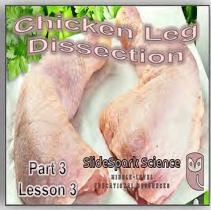


Part 3: Muscular System: 4 Lessons of 50 Minutes and 10 Page Work Bundle, # of Muscles in the Human Body, How blood vessels are woven into muscles and why, Stimulation of Action Potential, Coordinated Shortening, Types of Muscles, Smooth Muscle, Cardiac Muscle, Skeletal Muscle, Functions of the Muscular System, Posture, Good and Bad Posture, Phone Use and Posture, Review of the Functions with Visuals, Voluntary and Involuntary Muscles, Pupil Dilation Activity, Sarcomere and How they Work, Muscle Fibers, Examples with bicep and triceps, Smooth Muscles, Peristalsis Activity, Common Muscles of the Human Body with Visuals, and animated gifs, Students stand, sit, and make movements as each common muscle is described, Review of the Common Muscles of the Human Body, Visual Quiz of the Muscles, Box Game Review, Crossword Puzzle, Chicken Leg Dissections with Visuals and Step by Step Instructions, Dissection includes Flexion and Extension, Major Muscles, Alula, Bones, Fascia, Ligaments, Cartilage, Sia Chicken Leg, Visual Review Wrap-Up of Chicken Leg, Full Unit Assessment, Answer Version to the Assessment so Student can Self Assess.

#### Part 3: Muscular System







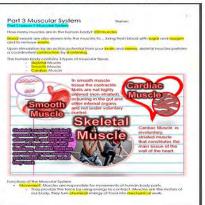


Part 3 Lesson 1 Types of Muscles



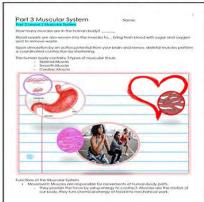
Part 3 Lesson 5 Review Game Answers

Part 3 Lesson 2 Muscles Human Body



Part 3 Work Bundle Answers

Part 3 Lesson 3 Chicken Leg Dissection



2 : 21



Part 3 Work Bundle Print Notes

Part 3 Work Bundle Print

Part 4: Health and Nutrition: 12 Lessons of about 50 minutes and 25 Page Follow Along Work Bundle, CHNOPS/SPONCH biologically important elements, Carbon and Organ Chemistry, % of SPONCH Elements in Living Things, Graphing this %, CaFé, Calcium, Iron, Organic Building Blocks, Carbohydrates, Lipids, Proteins, Nucleic Acids, Carbohydrates, Monosaccharide, Disaccharide, Polysaccharide, Sugars associated with each, Activity with Saltines and Iodine, Advantages and Disadvantages of Simple and Complex Sugars, Glycogen, Fiber, Soluble and Insoluble Fiber, Understanding Nutrition Labels, Protein, Amino Acids, Foods High in Protein, Four Important Functions of Proteins, Hormones, Lipids, Structure and Function of Lipids, Coronary Artery Disease Demonstration, Hormones, Some examples of common Hormones, Steroids, Anabolic Steroids, Some Dangers Associated with to use of Anabolic Steroids, Types of Fat, Unsaturated Fat, Saturated Fats, Trans fatty Acid, Structure of these Fats, Healthy and Unhealthy Fats, Nutrition Label and Fats, Visual Quiz of Carbohydrates, Lipids, and Proteins, Answers to Quiz so Students can Self-Assess, Box Game Review, MyPlate, Making a Meal Activity, Examples of Healthy Eating vs. Unhealthy Meal Choices, Processed and Unprocessed Foods, Jell-O and Pineapple Juice Optional Activity, Twinkie Dissection, Students get a Twinkie and then learn about all of the Ingredients inside, Deciding or Not to eat the Twinkie, Obesity, Diabesity, Dangers Associated with Obesity, Factors that can control Obesity, Why Fast Food Sells, Visual Quiz of Famous People in History vs. Food Mascots, Box Game Review, Ways to Get Control of your Weight, Healthy Eating, Factory Farming, Positives and Negatives of Factory Farming, Eating Disorders, Anorexia, Some Dangers Associated with Anorexia, Bulimia nervosa, How to be Supportive, Crossword Puzzle, Full Unit Assessment with Answers so Students can Self-Assess



Part 4 slidesparks sience by Lesson 5

Part 4 Lesson 5 Quiz and Review



Part 4 Lesson 9 Factory Farms



Part 4 Work Bundle Answers



Part 4 Lesson 2 Carbs Proteins



Part 4 Lesson 6 Twinkie Lesson



Part 4 Lesson 10 Eating Disorders



Part 4 Work Bundle Print with Notes



Part 4 Lesson 3 Lipids Steroids



Part 4 Lesson 7 Fast Food Obesity



Part 4 Lesson 11 Review Gam

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Part 4 Work Bundle Print



Part 4 Lesson 4 Types of Fat



Part 4 Lesson 8 Eating Healthy

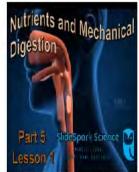


Part 4 Lesson 12 Review Game Answers

Part 4: Health and Nutrition

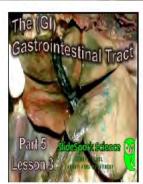
Part 5: Digestive System: 8 Lessons of 50 minutes, and 15 Page Follow Along Work Bundle, Review of Nutrients, Digestion, Saliva, Ptyalin, Chemical Digestion, Chewing Bread Activity, Mechanical Digestion, Synergism between Chemical and Mechanical Digestion, Taste Buds, Tasting Activity, Dentition, Dentition Imprint Activity, Swallowing, Bolus, Making a Bolus Activity, Safe Swallowing / Chewing, Pharynx, Epiglottis, Esophagus, Peristalsis, Stomach, Pyloric Valve, Step by Step Drawing of the Digestive System, Gastrointestinal Tract, Garden Hose Demo, Duodenum, Small Intestine, Surface Area and Digestion Demo, Pancreas, Pancreatic Juices, Enzymes, Liver, Gall Bladder, Vital Roles of the Liver, How Food gets Broken Down, Foods Macronutrients, Digestion Tic Tac Toe Review, Small Intestine, Villi, Villi and Surface Area, lleocecal valve / sphincter, Appendix, Appendectomy, Cecum, Large Intestine, Visual Review or Organs, Digestive System Simulation, Students become and organ along the Digestive System and Digest Food (cereal in bags) by mechanical and chemical means, Visual Review, Box Games Review, Full Unit Assessment with Answer Version for Self-Assessment

Part 5: Digestive System





Part 5 Lesson 2 Digestion





Part 5 Lesson 4 Intestines



system Simulation



Part 5 Lesson 6 Review Game



Part 5 Lesson 7 Review Game Answers



Part 5 Work Bundle Answers



Part 5 Work Bundle Print with Notes



Part 5 Work Bundle Print

Part Society System: 8 Lessons of 50 minutes and 15 Page Follow Along Work Bundle, Circulatory System, What Goes In, What Goes Out, What System is Comprised Of, Heart, Blood, Blood Vessels, Cellular Respiration, Respiration Equation, Parts of Cellular Respiration, Functions of the Circulatory System, Movement of Blood through the System, Circulatory System Simulation – The class is turned into a basic heart and students move through the system collecting oxygen in lungs and exchanging them for carbon dioxide in the body, Step by Step Drawing of the Heart, Naming the Parts of the Heart, Parts of a Heart Visual Quiz, Answers to the Visual Quiz, Blood Pressure, Hypertension, CPR, An automated external defibrillator (AED), Varicose veins, Alveoli, Gas Exchange, Smoking and Gas Exchange, Blood, Types of Blood Cells with Info, Blood Soup Activity where students make edible Soup with fun ingredients to represent the components of Blood, Red Blood Cells, White Blood Cells, Platelets, Plasma, % of Each, Blood Transfusions, Antigens, Antibodies, Blood Groups, Rh Factors, Safe and Unsafe Transfusions, Lymphatic System, Organs of the Lymphatic System, Lymph, Lymph Nodes, Lymph Vessels, Box Game Review, Crossword Puzzle, Full Unit Assessment with Answers so Students can Self-Assess

Part 6: Circulatory System



Part 6 Lesson 1 Ciruclatory Into



Part 6 Lesson 2 Heart



Part 6 Lesson 3 Arteries Veins



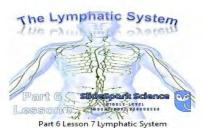
Part 6 Lesson 4 Review Quiz



Part 6 Lesson 5 Blood Cells



Part 6 Lesson 6 Blood Types





Part 6 Work Bundle Print with notes



Part 6 Lesson 8 Review Game



Part 6 Work Bundle Print



Part 6 Lesson 9 Review Game Answers



Part 6 Work Bundle Answers

Respiratory System Part 7: 14 Lessons of 50 minutes and 20 Page Follow Along Work Bundle, Respiratory System Basics, Oxygen, Aerobic and Anaerobic Respiration, Functions of the Nose, Step by Step Drawing of the Respiratory System, Exhale, Inhale, Epiglottis, Larynx, Vocal Chords, Sound Production, Trachea, Structure Function, Bronchus, Lungs, Alveoli, Asthma, Diaphragm, Build a Diaphragm Activity, Visual Quiz of the Respiratory System, Answers so Students can Self Assess, Tidal Volume, Vital Capacity, Lab Activity with Breathing and Balloons, Box Game Review, Crossword Puzzle, End Unit Assessment, Answer Version of Assessment so Students can Self Assess, Part 2 of the Unit examines the Dangers Associated with Tobacco Use, What is Cancer?, Lifestyle Choices to help aid in the prevention of Cancer, Skin Cancer, Dangers of Skin Cancer, Ways to avoid UV Exposure, Dangers of Tanning, Abcde's of Understanding Skin Moles and Cancer, Dangers of Smoking, Starting Anti-Tobacco Campaign Project, Dissection of a Typical US Blended Cigarette, Case Study on the Filter and how they don't work, Facts about Smoking, Start of Ad Campaign Portion of Unit, Students watch Anti-tobacco ads and reflect on their usefulness, Visual Tour of some harmful chemical in cigarettes, Full Ingredient List, Nitrosamines, How Chemicals Impact DNA, Visual Tour of the Negative Health Impacts Smoking Can Cause, Stroke, Heart Disease, Smokers Lung vs Non-Smoker, Coating of Alveoli in Tar, Neck Breathers, laryngectomy Laryngectomy, tracheostomy, Emphysema, Chronic Bronchitis, Danger of Second Hand Smoke, Berger's Disease, Hairy Tongue / lingua villosa, Tour of the the nastiest hairy tongues out there, Dangers of Smokeless Tobacco, Mouth and Throat Cancer, Dangers of Smoking while Pregnant, Comparing Twins Study, Vaping, Dangers of Vaping, Popcorn Lung, Wet Lung, A lot Still Unknown, Case Study on JUUL, Nicotine Levels in Vaping / e-juices, Nicotine and the Adolescent Brain, Anti-Tobacco Campaign Projects, Box Game Review, Crossword Puzzle, End Unit Assessment

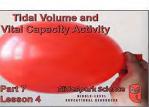


Part 7 Lesson 1 Respiratory System



Part 7 Lesson 2 Organs of Respiratory











Danger of Vapin

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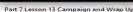






Review Game









Part 7 Lesson 15 Review Game Answers



Part 7 Lesson 11 Smoking Cont III (1)



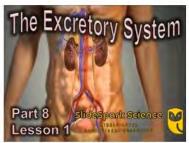
Part 7 Work Bundle Answers



Part 7: Respiratory System

Excretory and Integumentary Systems Part 8 4 Lessons of 50 Minutes and 9 Page Follow Along Work Bundle, Removal of Waste, Kidneys, Nephron, Diagram of Nephron, Parts of a Nephron and Function, Homeostasis, Urine, Urine Color, Ureters, Bladder, Urethra, Liver, Gall Bladder, Bile, Cirrhosis of the Liver, Integumentary System, Skin, Parts of the Skin, Finger Prints, Finger Print Activity, Hair, Box Game Review, Crossword Puzzle, End Unit Assessment with Answer Version so Students can Self-Assess

#### Part 8: Excretory System, Integumentary System



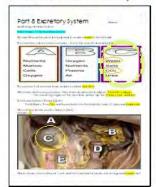
Part 8 Lesson 1 Excretory System



The Kidneys and Urine

Part 8
Lesson 2

Part 8 Lesson 2 Urine Kidneys



Part 8 Work Bundle Answers



Part 8 Lesson 3 Integumentary Systems



Part 8 Work Bundle Print with notes



Part 8 Lesson 4 Review Quiz 10Q



Part 8 Work Bundle Print

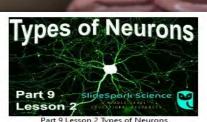
Nervous System Part 9 Nervous System, Stimulus Activity, Neuron, Electrical and Chemical Signals, Step by Step Drawing of a Neuron, Build a Neuron Activity, Neuron Class Simulation / Sending a Signal from Neuron to Neuron, Types of Neurons, Interneuron, Sensory Neurons, Motor Neurons, Action Potential, Receptors, Central Nervous System, Peripheral Nervous System, The Brain, Cerebrospinal fluid (CSF), CSF and Egg Demo, Build a Brain Activity, Step by Step Drawing of a Brain, Spinal Column, Spinal Cord Injury, Parts of a Brain, Lobes of the Brain, Functions of the Brain, Step by Step Drawing of an Eye, Parts of the Eye, Lens, Near and Far Sightedness, Cataracts, Glaucoma, Rod and Cones, Night Vision Activity, Parts of the Eye Visual Review, Observation, Inferences, Optical Illusions, Smell, Smell Activity, Dangers of Inhalant Abuse, The Science of Hearing, Step by Step Drawing of the Ear, Parts of the Ear, Noise Induced Hearing Loss, Listening Trial Study Activity, Box Game Review, Crossword Puzzle, End Unit Assessment with Answer Version so Students can Self-Assess





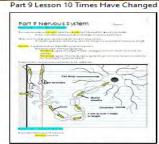












Part 9 Work Bundle Answers







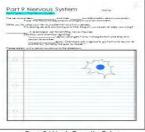




Part 9 Lesson 4 The Eye SOMENLIONAL DENGOSECES

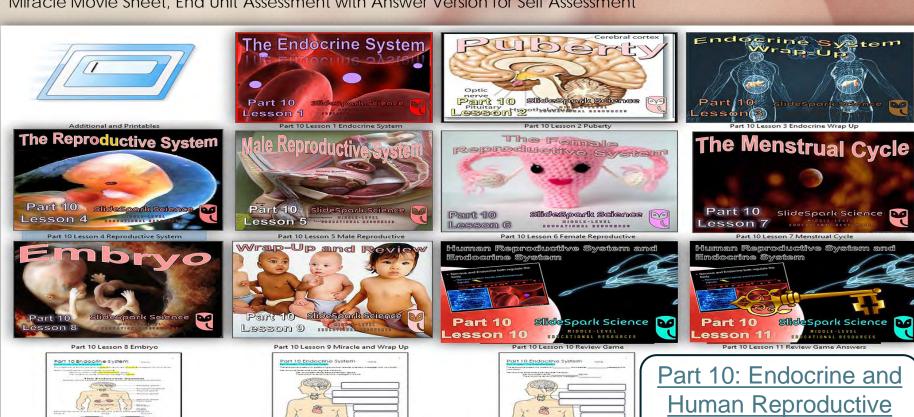


Part 9 Lesson 12 Review Game



Part 9 Work Bundle Print

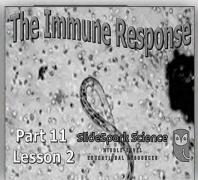
Endocrine and Reproductive Systems Part 10 11 Lessons of 50 minutes and 19 Page Follow Along Work Bundle, The Endocrine System, Endocrine and Nervous System Working Together, Venn Diagram of Each, Glands of the Endocrine System, Location of Glands of the Endocrine System, Hormones, Exocrine Glands, Endocrine Glands, Activities in the Body, Adrenaline, Adrenaline Roller Coaster Activity, Dopamine, Dangers of Methamphetamine, Important Hormones, Exocrine Glands, Hypothalamus, Pituitary Gland, Metabolism, Thymus, Thyroid, Adrenals, Pancreas, Diabetes, Ovaries, Testes, Reading Article about Puberty, Body Stability and Counterbalance Hormone, Testosterone, Estrogen, Box Game Review, The Reproductive System, Sugar Baby Project, Functions of the Reproductive System, Male and Female Gametes, Step by Step Drawing of the Gametes, Fertilization, Haploid, Diploid, Step by Step Drawing of the Male and Female Reproductive Systems with Important Vocabulary, Review with Visuals, Puzzle Activity, Menstrual Cycle, Ovarian Cycle, Events of the Menstrual Cycle, Embryo, Embryonic Development, Amniotic Sac, Sonogram, Placenta, Caesarean Section, Dangers of Smoking and Drinking while Pregnant, Fetal Alcohol Syndrome, Box Game Review, Crossword Puzzle, Life's Greatest Miracle Movie Sheet, End Unit Assessment with Answer Version for Self Assessment



Systems

Immune System Part 11 4 Lessons of 50 minutes, 10 Page Follow Along Work Bundle, Joesph Lister, Parts of the Immune System and their Locations, Agents that the Immune System Defends Against, Importance of the Skin as a Barrier, The Nose and Mucous, Saliva, Friend from Foe Achievement, Inflammatory Response, Bee Stings, Step by Step Drawing of the Immune System, Leukocytes, Phagocytes, Lymphocytes, B Cells, T Cells, Dendritic Cells, Antibodies, Immunity, Influenza Case Study, Active and Passive Immunity, Vaccines, Virus Prevention, Box Game Review, Crossword Puzzle, Full Unit Assessment with Answer Versions for Self Assessment







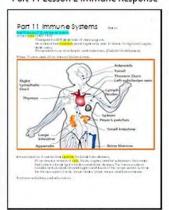


Part 11 Lesson 1 Immune System



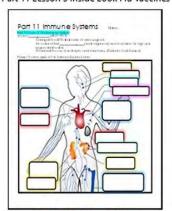
Part 11 Lesson 5 Review Game Answers

Part 11 Lesson 2 Immune Response



Part 11 Work Bundle Answers

Part 11 Lesson 3 Inside Look Flu Vaccines



Part 11 Work Bundle Print

Part 11: The Immune System

#### **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
Weather and Climate Unit	40 Lessons	6-8 medium difficulty	MORE DIFFICULT
Astronomy Unit	60 Lessons	6-8 medium difficulty	MORE
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

Earth Science Curriculum

Life Science Units	Daily Lessons	Intended Grade	
Ecology Feeding Levels Unit	13 Lessons	5-6 easier	EASIEST
Ecology Interactions Unit	30 Lessons	5-6 easier	EASIEST
Ecology Abiotic Factors Unit	24 Lessons	5-6 easier	EASIEST
Botany Unit	50 Lessons	5-7 easier	EASIEST
Evolution and Natural Selection	40 Lessons	5-7 easier	EASIEST
Taxonomy and Classification	50 Lessons	6-8 medium difficulty	MORE
Infectious Diseases Unit	30 Lessons	7-9 more difficult	MORE
DNA and Genetics Unit	42 Lessons	8-10 most difficult	Most Difficult
Human Body Systems Unit	85 Lessons	6-8 medium difficulty	MORE
Cell Biology Unit	30 Lessons	8-10 most difficult	Most Difficult

#### Life Science Curriculum

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

Physical Science Curriculum



Entire SlideSpark Science Curriculum

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

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

Sincerely,

Support@slidespark.net







### SlideSpark Science

MIDDLE-LEVEL EDUCATIONAL RESOURCES



SlideSpark Science on TpT