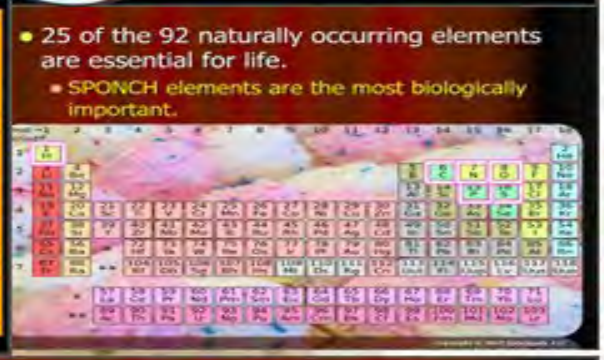
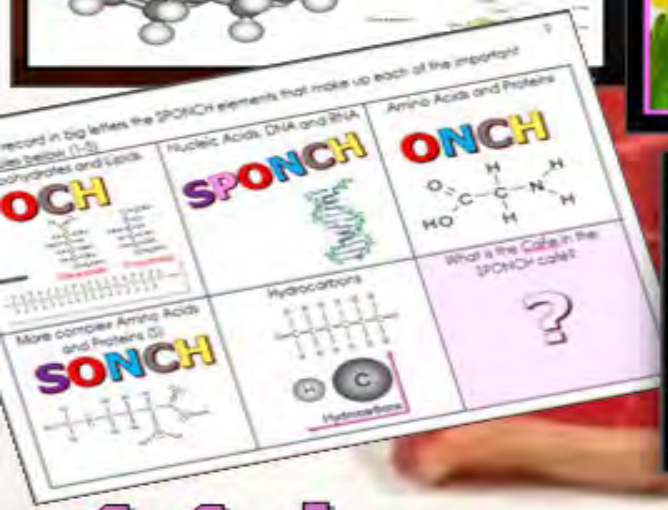
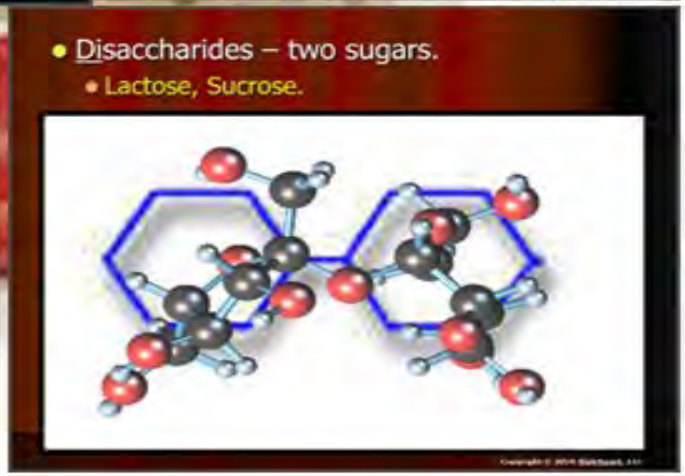
Health and Nutrition Unit







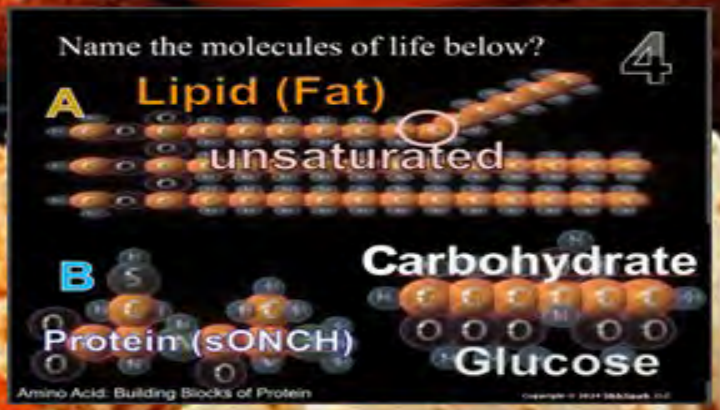
11 Lessons

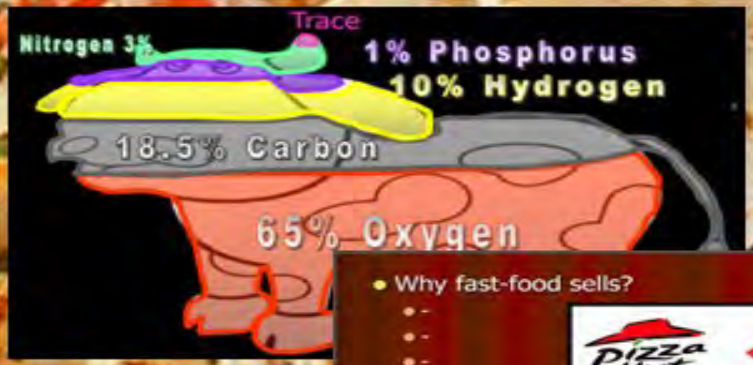
Interactive Slideshows

- Which is a monosaccharide, disaccharide, polysaccharide?

- By the end of the of this unit you should be able to describe, proteins, carbohydrates, lipids.
  - This unit will help you understand the make-up of complex molecules.

Name the molecules of life below? 4



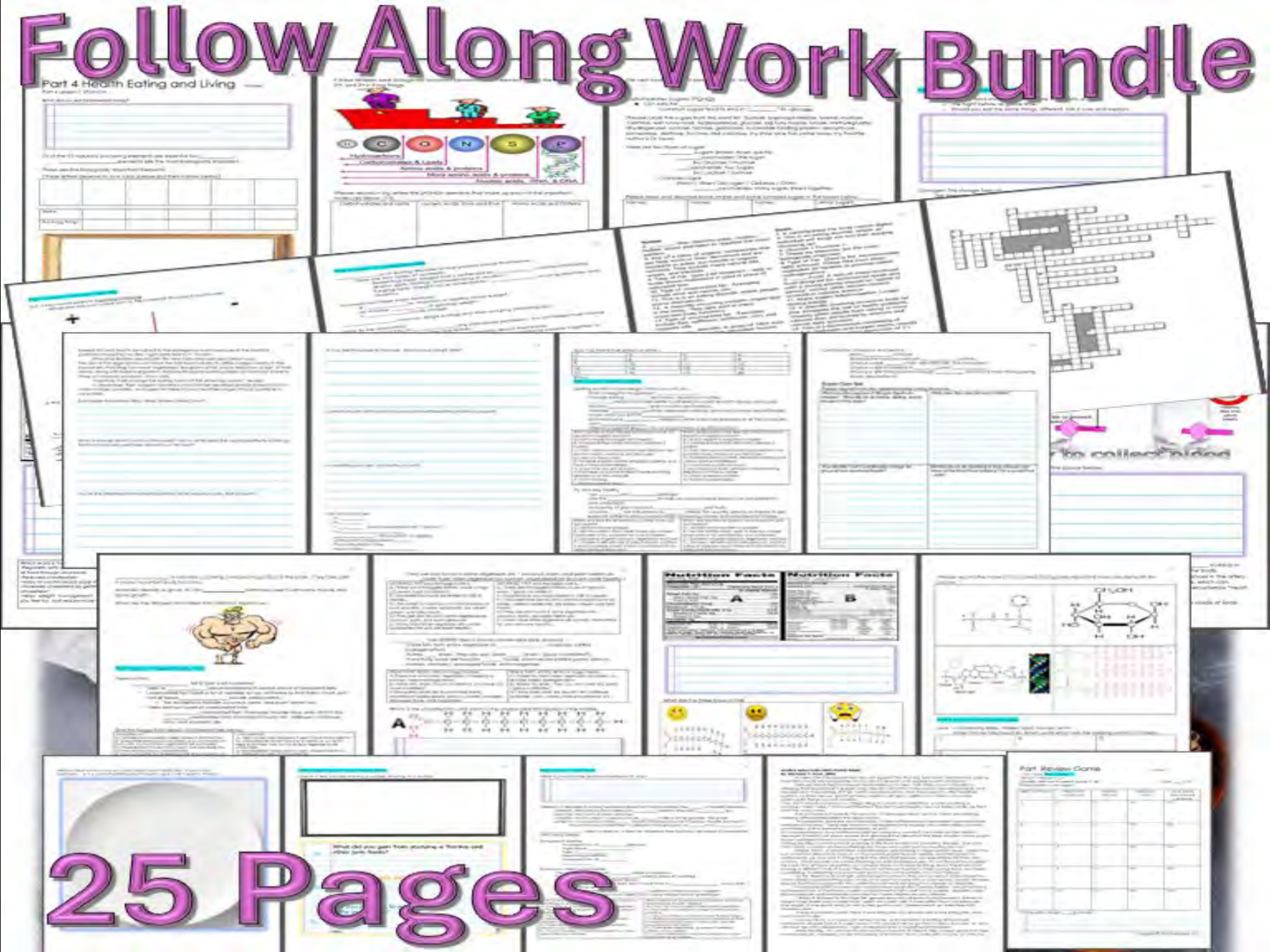


- Quiz 1-10 Carbohydrate, Protein, Lipid, Nucleic Acid.

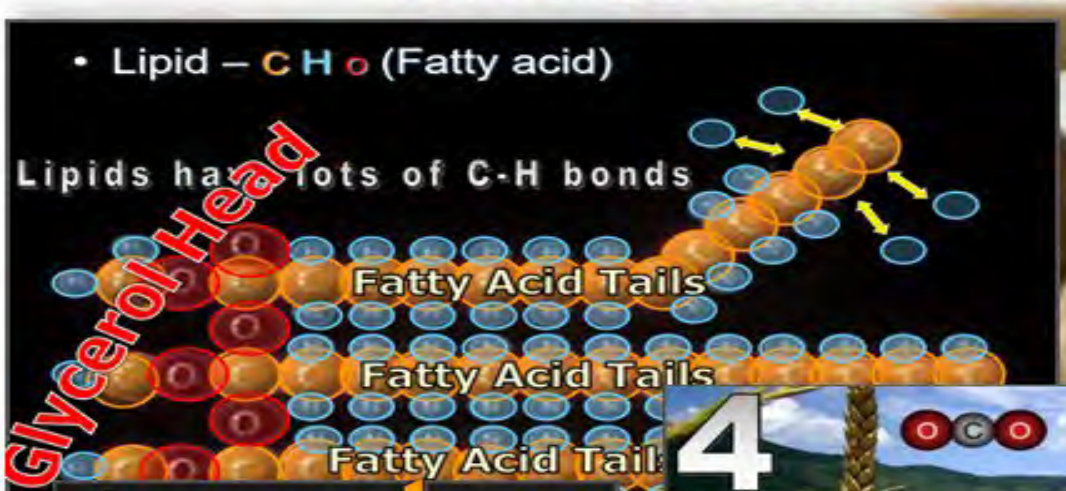
Learn more about the molecules of life at...
http://www.webpages.uidaho.edu/bionet/bio115/t2_basics_of_life/lesson2.htm

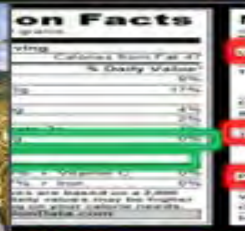
- Why fast-food sells?

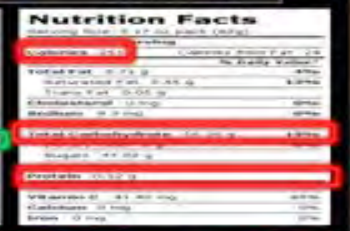
Follow Along Work Bundle



Activities, Assessments, Notes, Review, Games, Answer Keys, and more all built-in



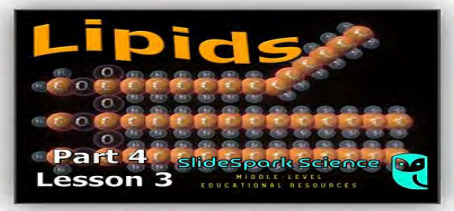




Part 4: Health and Nutrition: 12 Lessons of about 50 minutes and 25 Page Follow Along Work Bundle, CHNOPS/SPONCH biologically important elements, Carbon and Organ Chemistry, % of SPONCH Elements in Living Things, Graphing this %, CaFé, Calcium, Iron, Organic Building Blocks, Carbohydrates, Lipids, Proteins, 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 Lesson 1 SPONCH molecules

Part 4 Lesson 2 Carbs Proteins



Part 4 Lesson 3 Lipids Steroids

Part 4 Lesson 4 Types of Fat

Part 4 Lesson 5 Quiz and Review

Part 4 Lesson 6 Twinkie Lesson

Part 4 Lesson 7 Fast Food Obesity

Part 4 Lesson 8 Eating Healthy

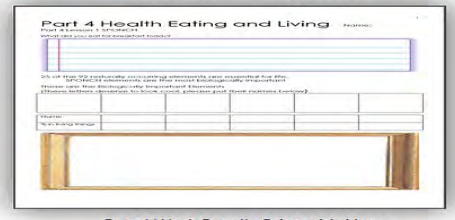
Part 4 Lesson 9 Factory Farms

Part 4 Lesson 10 Eating Disorders

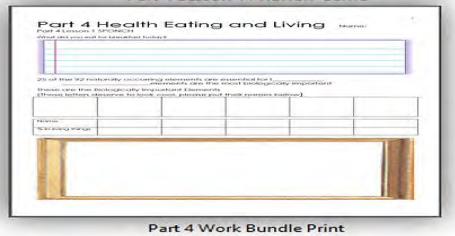
Part 4 Lesson 11 Review Game

Part 4 Lesson 12 Review Game Answers

Part 4 Work Bundle Answers



Part 4 Work Bundle Print with Notes



Part 4 Work Bundle Print

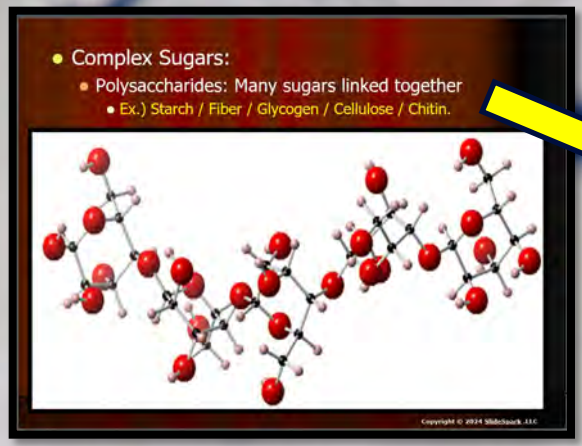
Part 4: Health and Nutrition

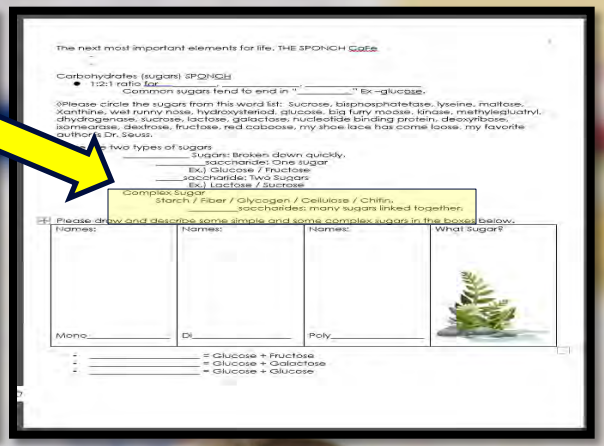
SlideSpark Science

MIDDLE-LEVEL EDUCATIONAL RESOURCES

Interactive slideshows provide the roadmap for an amazing learning experience for students in grades 5-9. A Detailed set of work bundles chronologically follow the digital learning, providing a clear and intuitive roadmap to understanding. As the teacher or student advances through a slideshow, exciting hands-on activities, fantastic visuals, fill-in notes, review opportunities, video links, assessments, and much more are strategically placed throughout. Interactive learning unfolds step by step and supported by the work bundle to reach all types of learners. Everything you need to run to an amazing learning experience is provided in this one-of-a-kind science curriculum.

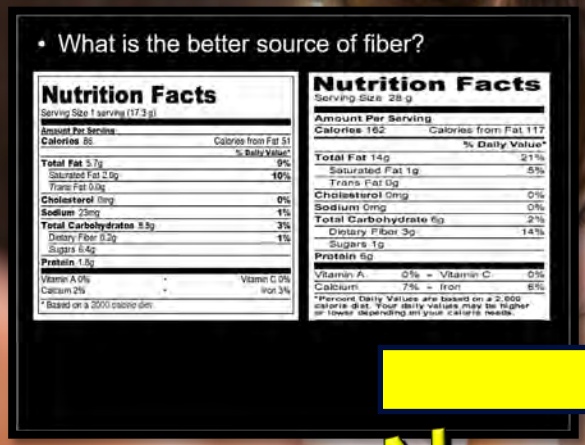
Each unit in the curriculum is designed to help teachers deliver the best possible learning experience for their students. Our interactive science slideshows are filled with questions and answers, important fill-in notes, hands-on activities, projects, games, built-in quizzes, and end of the unit assessment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



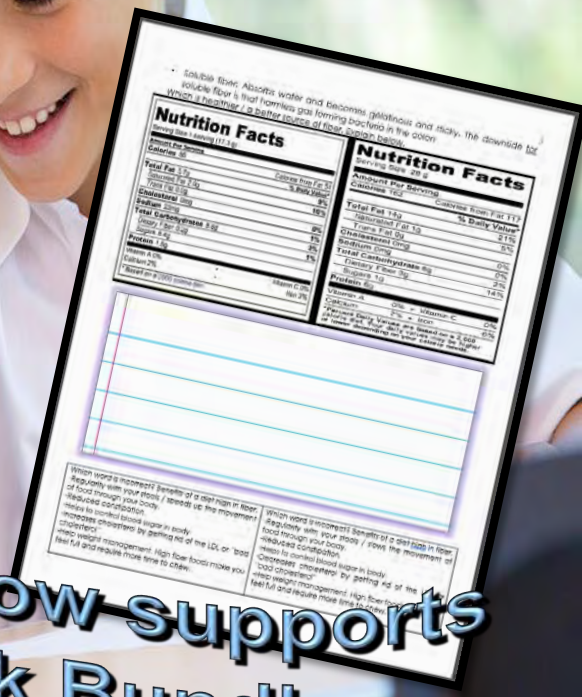


Red Slide Notes: Help students record important information in a fun and easy-to-understand way. Designed red-colored slides contain a few pieces of crucial information that students must record into their work bundle to complete the notes. Students will use these important notes throughout the work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

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



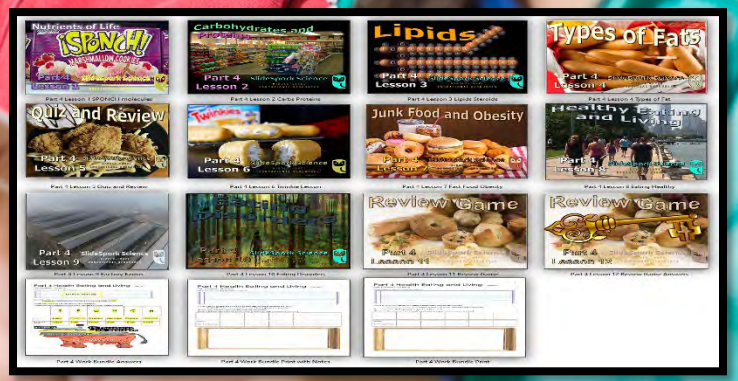
Next Slide



Slideshow supports Work Bundle

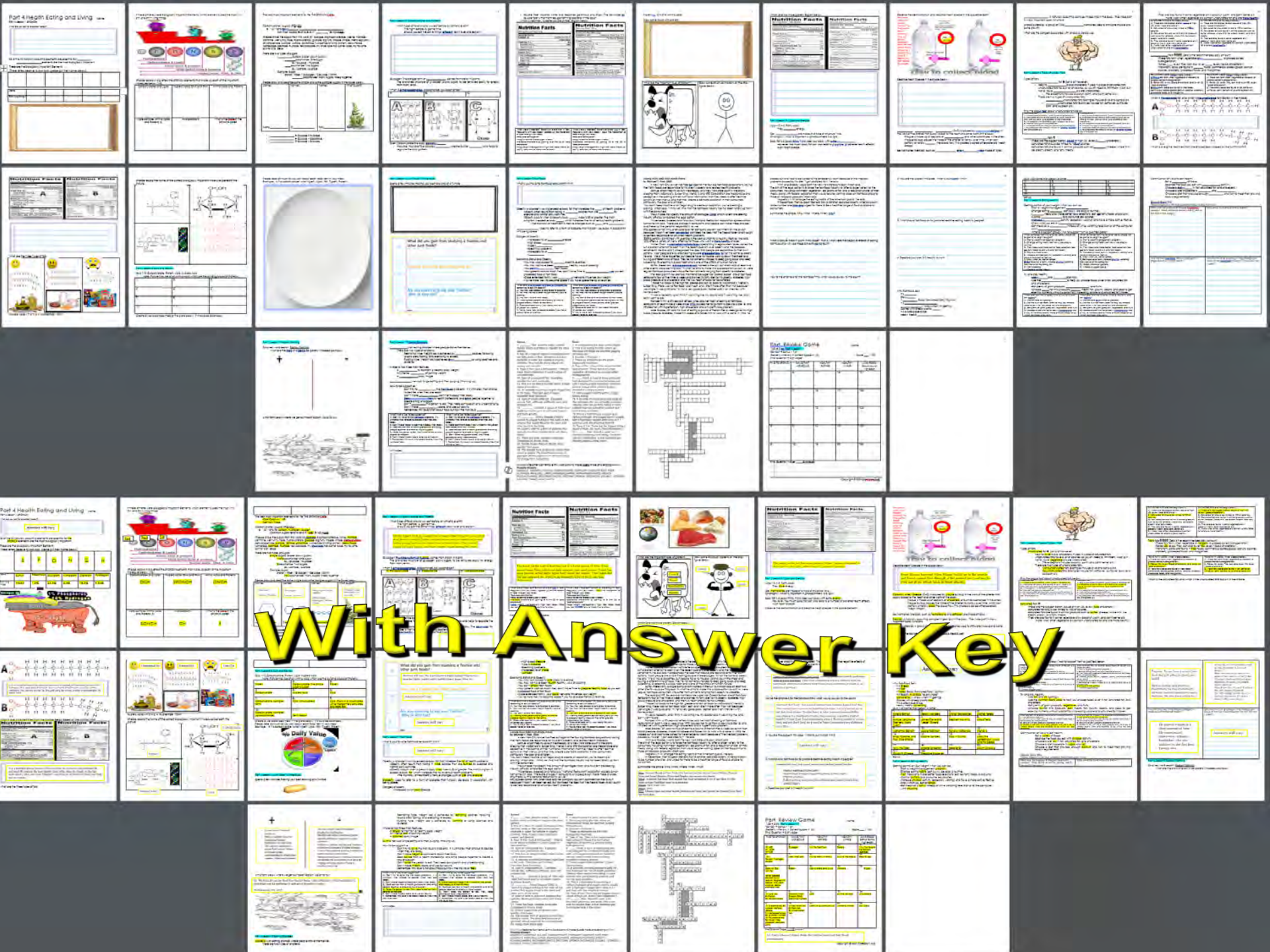
Lesson Planning

Daily lessons space exciting hands-on activities, red slide notes, video and academic links, projects, simulations, readings, built-in quizzes, and review opportunities throughout the slideshows. A typical day may have many different learning styles being targeted. Daily lesson planning becomes advancing through the slideshow roadmap the night before. Each lesson is roughly 50 minutes, but sometimes things can speed up or slow down. The best strategy is just to go at your classes own pace. The work bundle chronologically follows the 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.



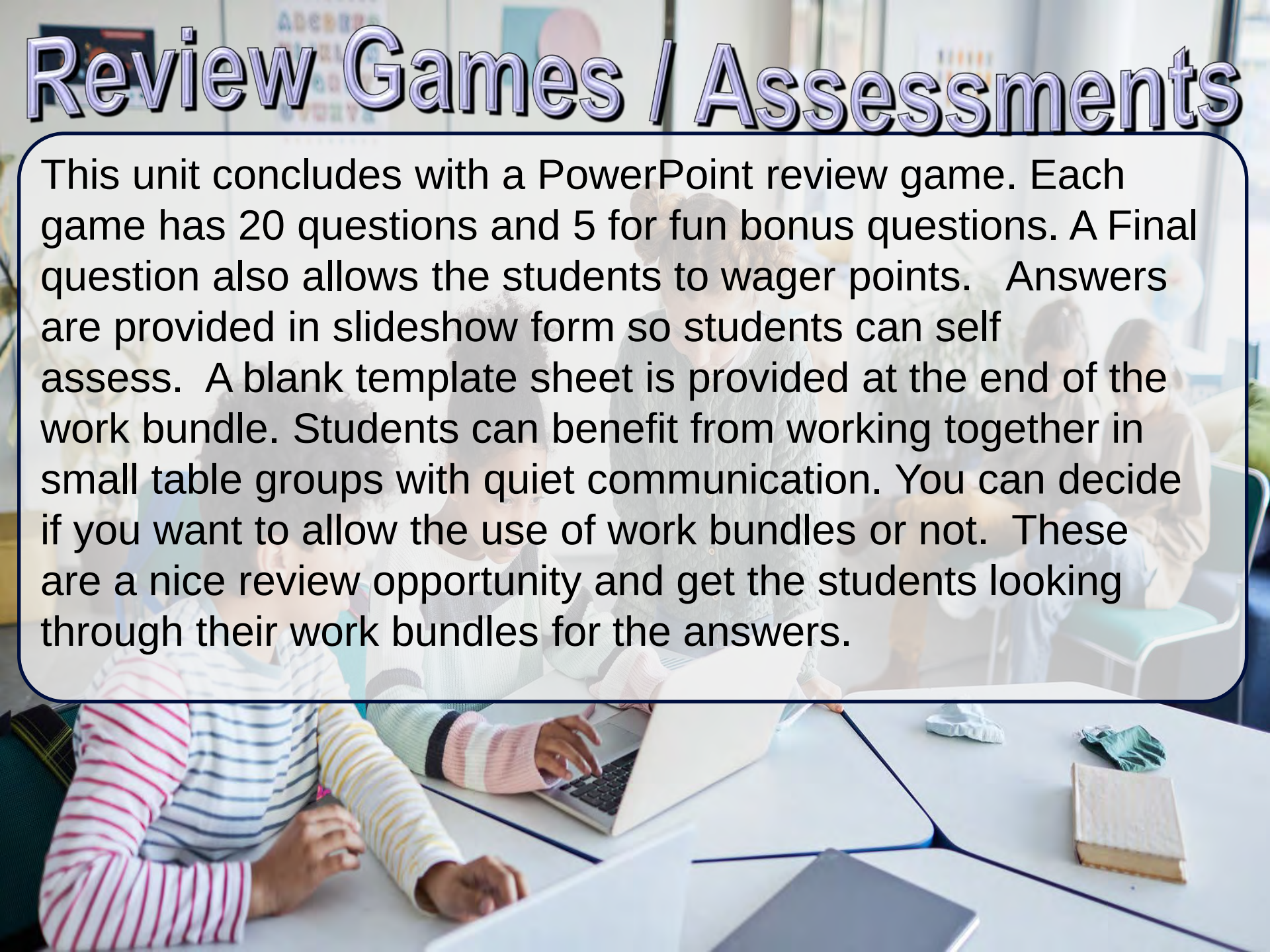
Follow Along Work Bundle

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.


With Answer Key

Review Games / Assessments

This unit concludes with a PowerPoint review game. Each game has 20 questions and 5 for fun bonus questions. A Final question also allows the students to wager points. Answers are provided in slideshow form so students can self assess. A blank template sheet is provided at the end of 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.



- A diet of too many saturated and Trans Fats can cause this to happen…

9

Coronary Heart Disease (CHD) aka- Heart Attack

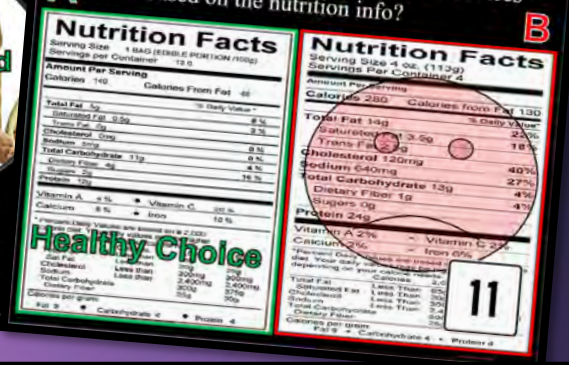
The leading cause of death in the United States for men and women.

- Which pictures are unsaturated fats, saturated fats, and Trans Fatty Acids?

10

- Which is one is the healthiest from the choices below based on the nutrition info?

A

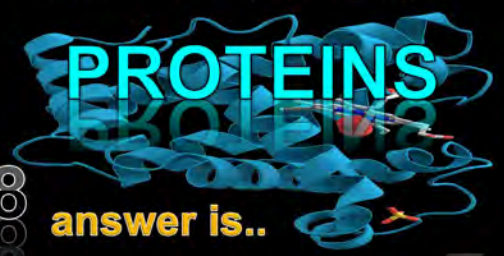


11

- Which letter below is the most unbalanced / most unhealthy meal from the choices below?

12

- This very important molecule of life plays a role in every single cell in our body. It also supports healthy…
  - Skin, Muscles, Ligaments, Tendons, Eyes, Antibodies, Enzymes, Hair, and every organ in our body.

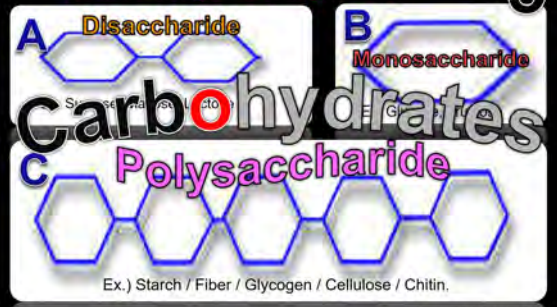


8

answer is..

- Which is a monosaccharide, disaccharide, and polysaccharide?
  - You must also give an example of each.

5

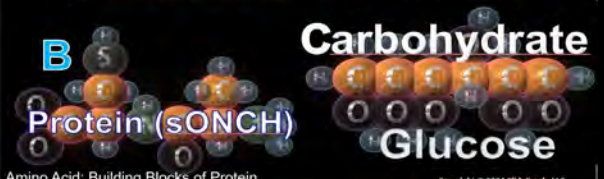


Name the molecules of life below?

4

A Lipid (Fat)

B



Amino Acid: Building Blocks of Protein

- Carbohydrates are made of these three SPONCH elements?
  - What is the important ratio 1 : 2 : 1

Carbon, Hydrogen, Oxygen

2

- This simple carbohydrate is at the center of a debate in the health world. It is believed by many to cause significant weight gain. (HFCS)

13

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.

- Activity! Processed Foods vs. Fresh Foods.

- Procedure.
  - Teacher prepares Jell-O cubes the night before. (Each student requires two cubes).
  - Teacher also prepares two mixtures of pineapple juice in a blender.
    - One mixture is from fresh pineapples. Remove solids with strainer.
    - The other mixture is from canned pineapples. Remove solids with strainer.

A.) Students should put each Jell-O cube on a separate dish.

B.) Students should be given both pineapple mixtures that are labeled in small cups. (Canned vs. Fresh)

C.) Students use eyedroppers to drip each sample on the Jell-O until the dish is full and then use the dish juice to keep drizzling.

D.) Record observations of both Jell-O samples from the beginning of class to the end every 5 minutes.

E.) Don't cross contaminate the samples. Please use two eye droppers.

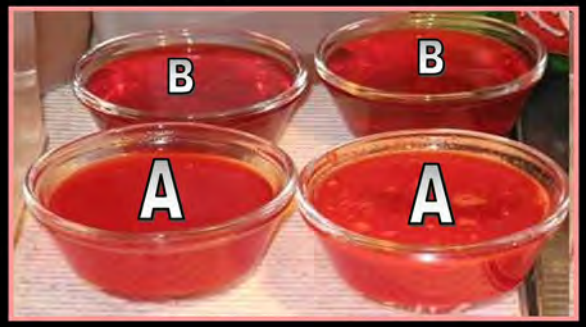
Learn more at…
http://www.mrgraba.net/uploads/8/2/6/3/8263952/juicenjello2.bwg.pdf

- Please record the following spreadsheet in your journal.

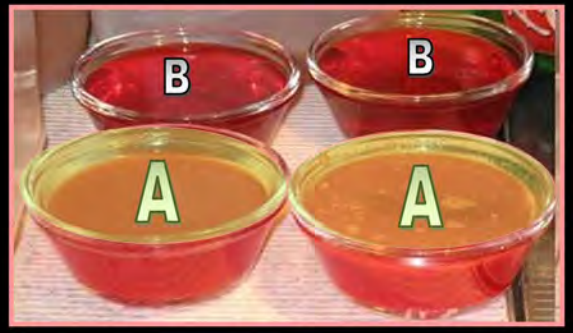
Observations of Jell-O

Minutes	Canned	Fresh
5		
10		
15		
20		
25		
30		

- Which one of these was given the fresh pineapple juice?



- Which one of these was given the fresh pineapple juice? Letter A… Why?



- Answer:
  - Gelatin comes from a protein called collagen found in animal bones.

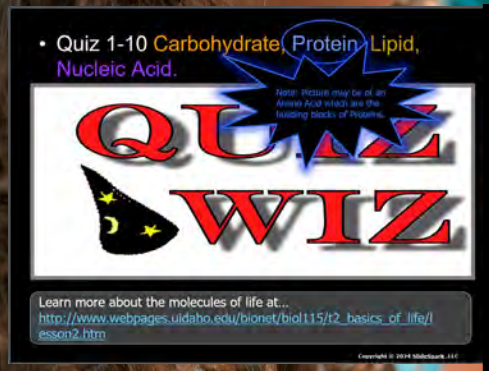
- Answer:
  - Gelatin comes from a protein called collagen found in animal bones.
  - Fresh pineapple juice contains an enzyme called bromelin that breaks down protein.

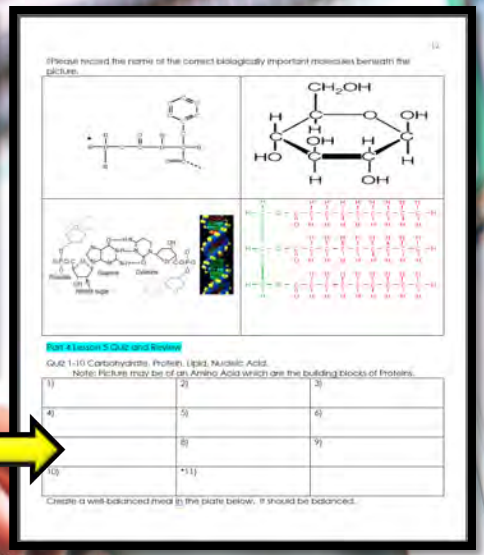
- Answer:
  - Gelatin comes from a protein called collagen found in animal bones.
  - Fresh pineapple juice contains an enzyme called bromelin that breaks down protein.
  - The canning process denatures the enzyme bromelin so it cannot break down collagen.

- Helpful enzymes are not destroyed in fresh foods as they are in many processed foods.

Built-in Quizzes

Each unit contains several built-in quizzes 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 quizzes provide an effective and efficient way for teachers to assess student learning.




Please record the name of the correct biologically important molecules beneath the picture.

Part 4 Lesson 5 Quiz and Review

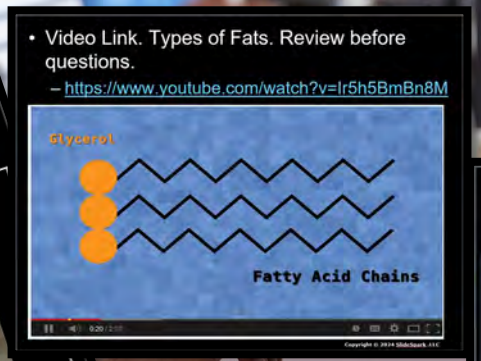
Quiz 1-10 Carbohydrate, Protein, Lipid, Nucleic Acid.
Note: Picture may be of an Amino Acid which are the building blocks of Proteins.

Create a well-balanced meal in the plate below. It should be balanced.

Quiz in Work Bundle

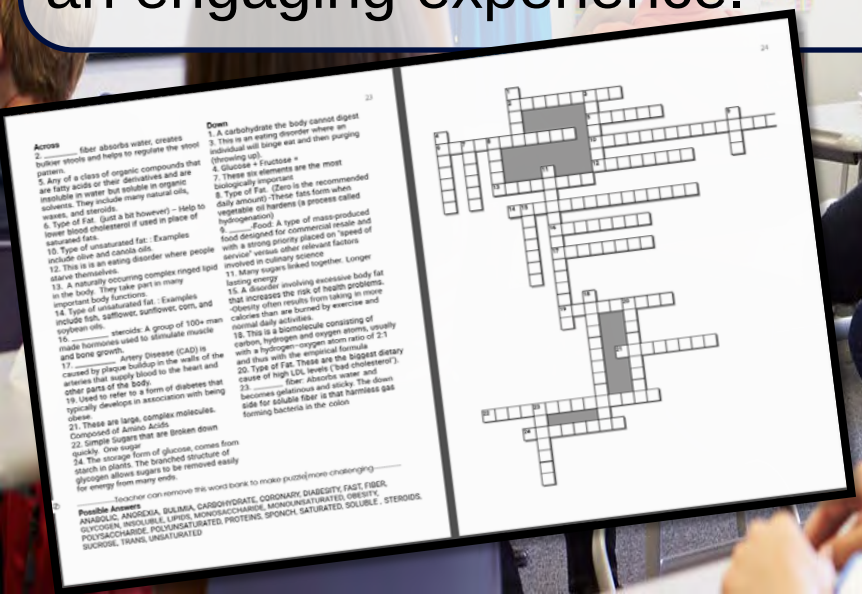
Built-in Video Links

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



Games and Review

Games are a fantastic way for students to learn scientific concepts while having fun. We incorporate a variety of games into our curriculum, including interactive quizzes and puzzles that challenge students to think critically about the material. Our Hidden Box Games are a particularly popular feature, which conclude each unit by revealing a picture related to the topic. Students try to guess what the picture might be, making learning an engaging experience.



The Owl - Each Part of the slideshow has a small clipart Owl hiding somewhere in a slide. The owl is incredibly small and blended into just the right slide. If a student spots the “Owl” they can raise their hand high into the air. When you call upon the student they can say “Owl" and be the student who spotted the Owl. Each PowerPoint Review game also has an owl hiding in it worth one point. Remind the students that they secretly write the word "owl" rather than yell it out during the review games. The Owl search is not included in every lesson. A slide at the beginning of the lesson will alert the students that today is an “Owl’ day. Everything arrives editable so delete if you wish. You will find that some students will become the expert owl hunters in the group.

Google Classroom Compatible

Our digital learning programs are designed for students to learn science in a flexible and engaging environment. Our Google Classroom-compatible units provide a seamless learning experience whether your students are in the classroom or learning from home. Our step-by-step slideshows and student work bundles ensure that students can complete their work independently. The PowerPoint Slideshows and step-by-step work bundles can easily be loaded to your Google Drive and posted in your Google Classroom. These are great for daily lessons, students who need additional time, and for a student who was absent and looking to catch up in their work bundle.

Part 4 Lesson 3 Lipids Stero...
Google Slides

Part 4 Lesson 4 Types of Fat
Google Slides

Part 4 Lesson 1 SPONCH mo...
Google Slides

Part 4 Lesson 7 Fast Food O...
Google Slides

Part 4 Lesson 10 Eating Dis...
Google Slides

Part 4 Lesson 5 Quiz and Re...
Google Slides

Part 4 Lesson 6 Twinkie Les...
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Google Slides

Part 4 Lesson 11 Review Ga...
Google Slides

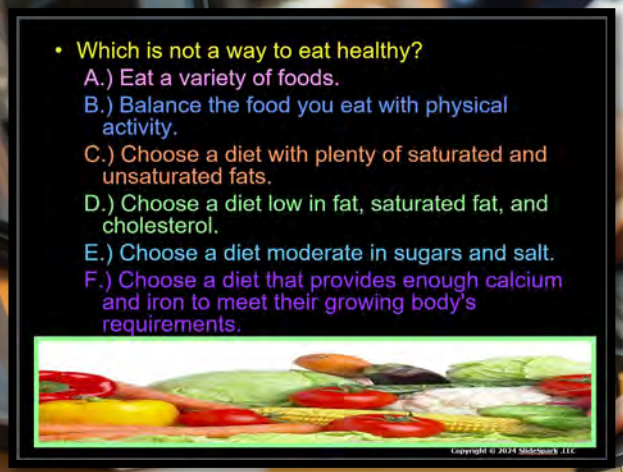
Part 4 Lesson 2 Carbs Protei...
Google Slides

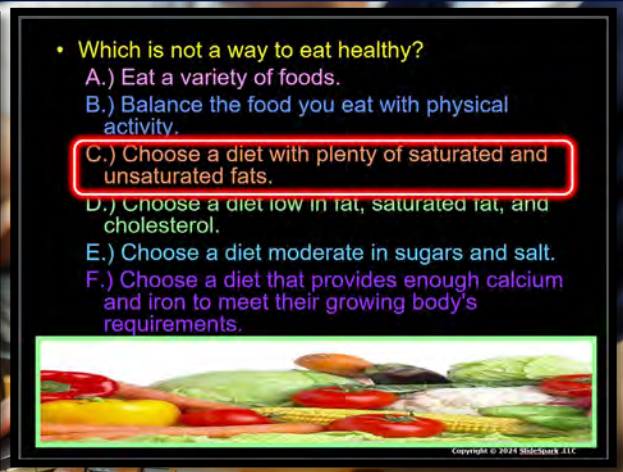
Part 4 Lesson 8 Eating Healt...
Google Slides

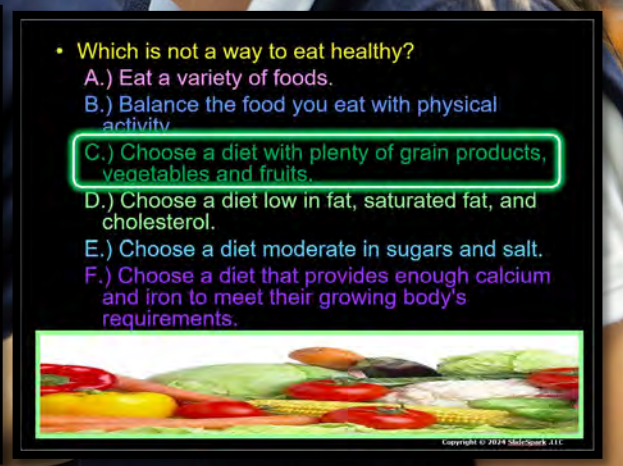
Part 4 Lesson 9 Factory Far...
Google Slides

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.





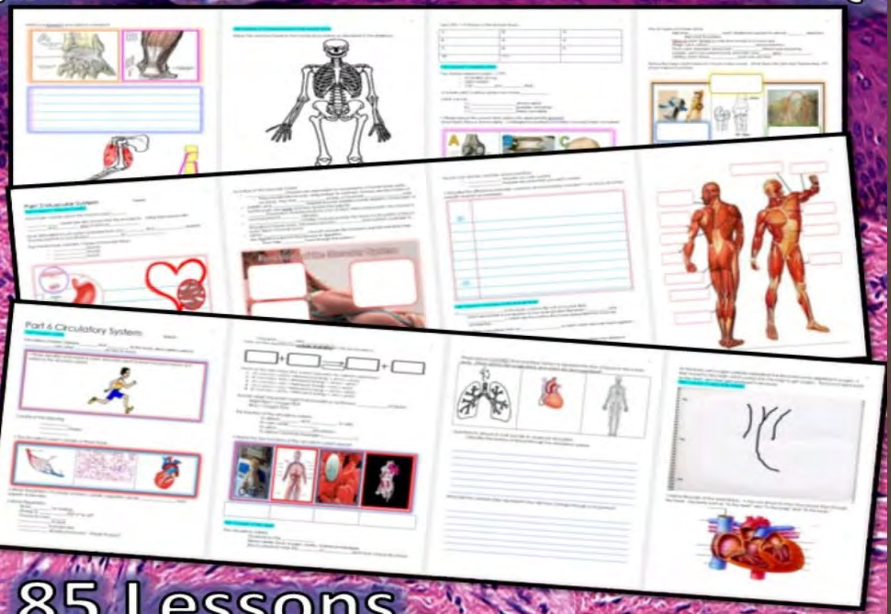


Human Body Systems and Health Topics Units

Human Body Systems and Health Topics Unit

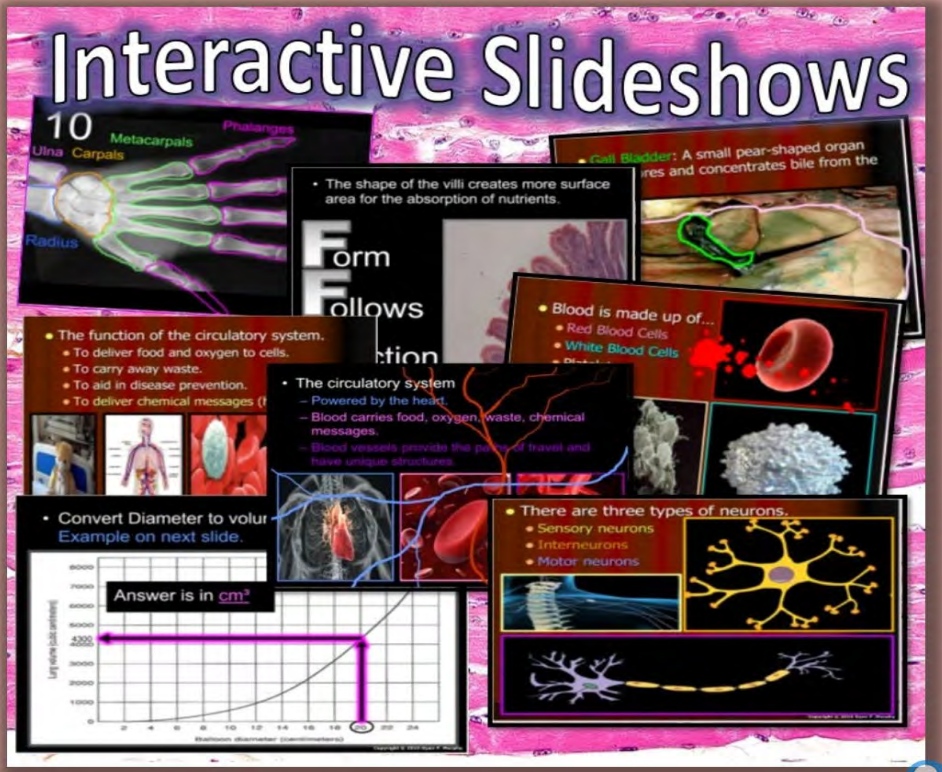
Human Body Systems and Health Topics Unit
85 Lessons and 11 Parts. (6th- 8th Medium Difficulty).
Part 1 is about Levels of Biological Organization and has 5 Lessons and 11 Page Work Bundle. Part 2 is about the Skeletal System and has 7 Lessons and 13 Page Work Bundle. Part 3 is the Muscular System and 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



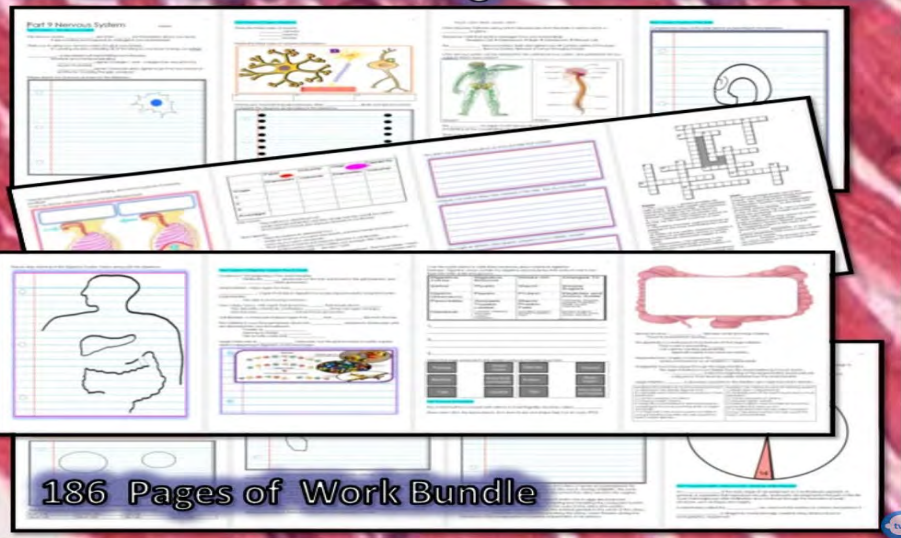
85 Lessons

Interactive Slideshows



Assessments, Video Links, Keys, Games, and more all built-in

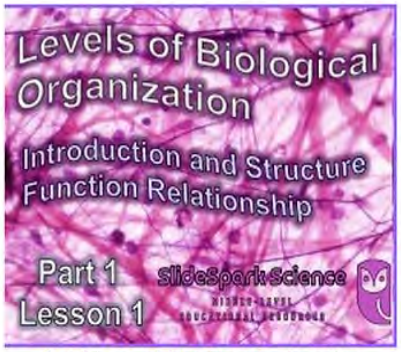
With Follow Along Work Bundles



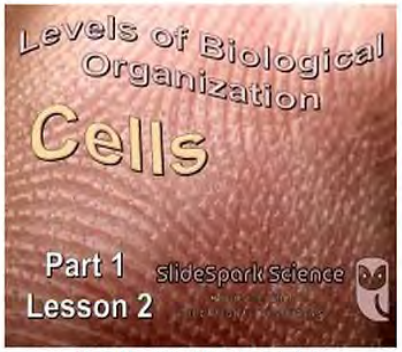
186 Pages of Work Bundle

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

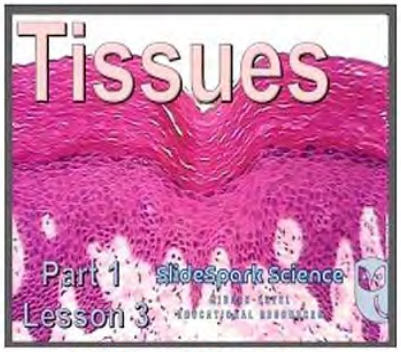
Part 1: Levels of Biological Organization



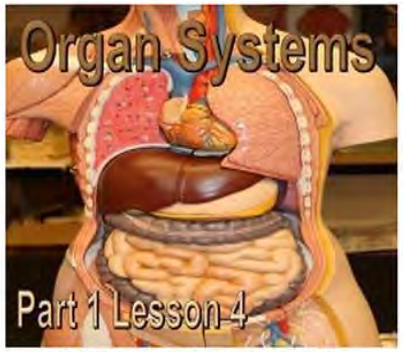
Part 1 Lesson 1 Intro Structure Function



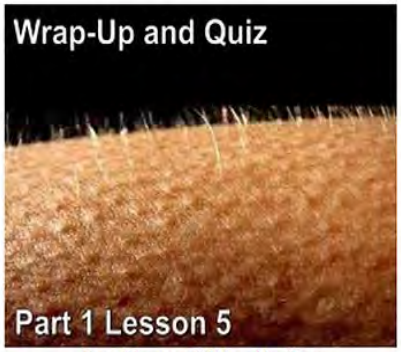
Part 1 Lesson 2 Levels and Cells



Part 1 Lesson 3 Cells and Tissues

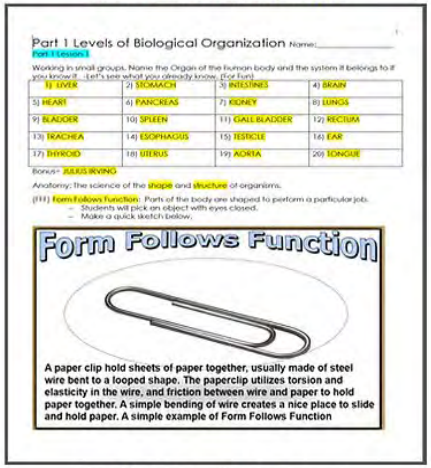


Part 1 Lesson 4 Organ Homeostasis

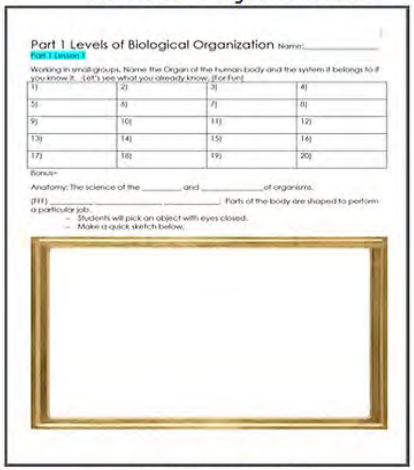


Part 1 Lesson 5 Wrap Up Quiz

Part 1 Lesson 6 Quiz Answers



Part 1 Work Bundle Print Answers



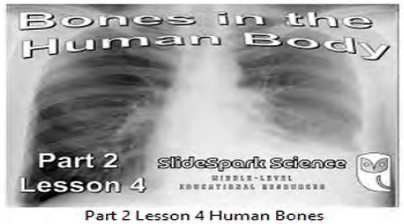
Part 1 Work Bundle Print

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

Part 2 Lesson 2 Brain Injury

Part 2 Lesson 3 Bones Tendon Ligament



Part 2 Lesson 4 Human Bones

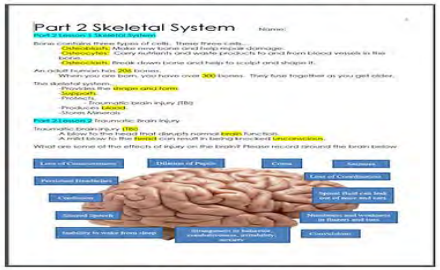
Part 2 Lesson 5 Skeletal Joints

Part 2 Lesson 6 Biomechanical Hand

Part 2 Lesson 6 Review Injuries

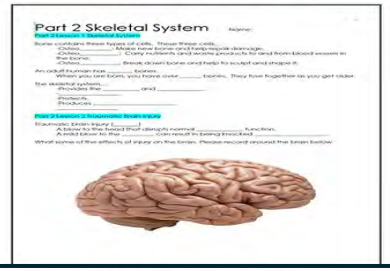
Part 2 Lesson 7 Review Game

Part 2 Lesson 8 Review Game Answers



Part 2 Work Bundle Answers

Part 2 Work Bundle Print with Notes

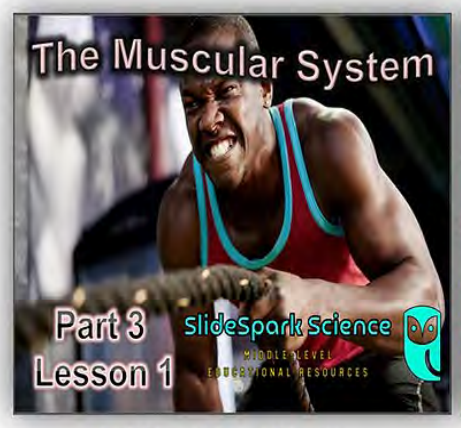


Part 2 Work Bundle Print

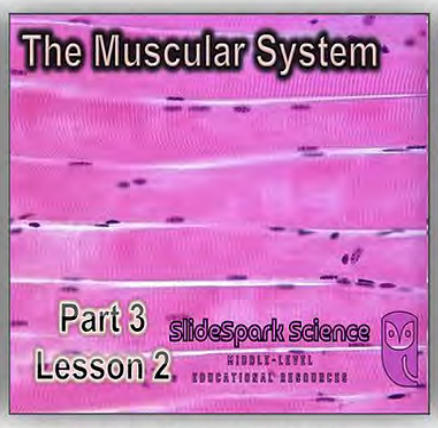
Part 2: Skeletal System

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, of a Chicken Leg, Visual Review Wrap-Up of Chicken Leg, Full Unit Assessment, Answer Version to the Assessment so Student can Self Assess.

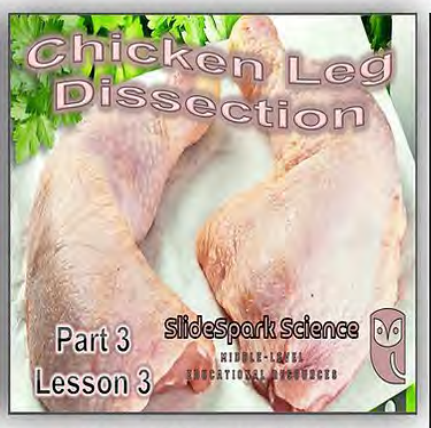
Part 3: Muscular System



Part 3 Lesson 1 Types of Muscles



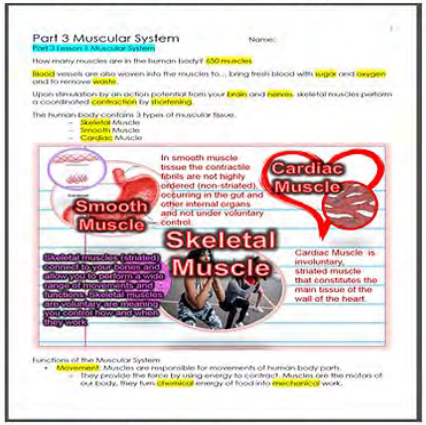
Part 3 Lesson 2 Muscles Human Body



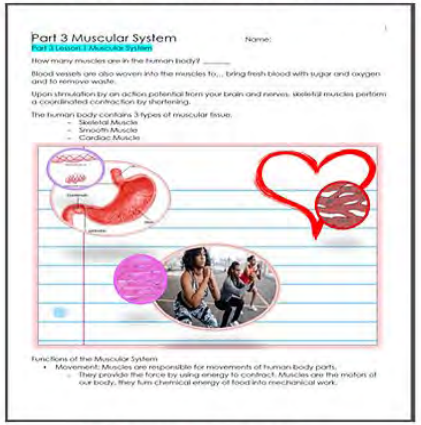
Part 3 Lesson 3 Chicken Leg Dissection

Part 3 Lesson 4 Review Game

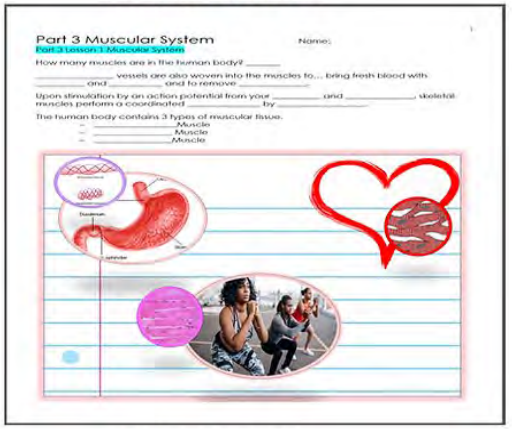
Part 3 Lesson 5 Review Game Answers



Part 3 Work Bundle Answers



Part 3 Work Bundle Print Notes

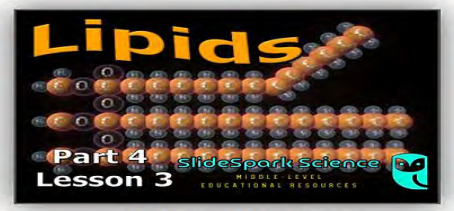


Part 3 Work Bundle Print

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 Lesson 1 SPONCH molecules

Part 4 Lesson 2 Carbs Proteins



Part 4 Lesson 3 Lipids Steroids

Part 4 Lesson 4 Types of Fat

Part 4 Lesson 5 Quiz and Review

Part 4 Lesson 6 Twinkie Lesson

Part 4 Lesson 7 Fast Food Obesity

Part 4 Lesson 8 Eating Healthy

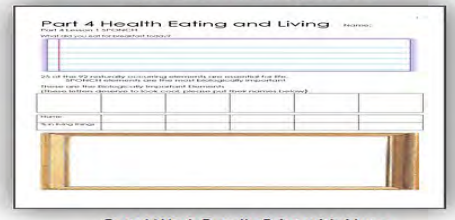
Part 4 Lesson 9 Factory Farms

Part 4 Lesson 10 Eating Disorders

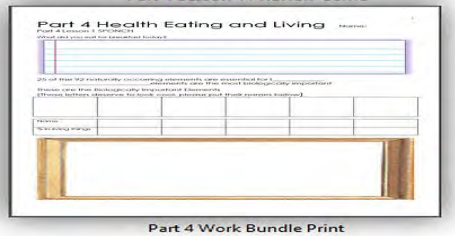
Part 4 Lesson 11 Review Game

Part 4 Lesson 12 Review Game Answers

Part 4 Work Bundle Answers



Part 4 Work Bundle Print with Notes

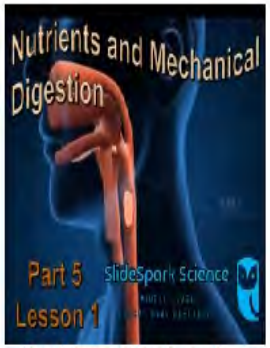


Part 4 Work Bundle Print

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, Ileocecal 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 1 Nutrients Chew

Part 5 Lesson 2 Digestion

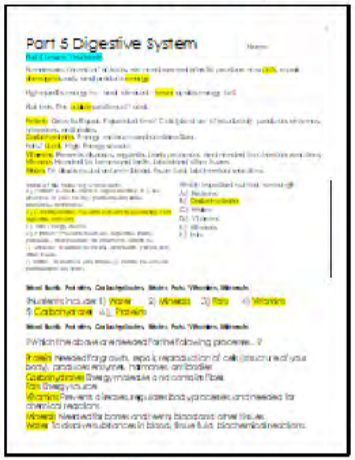
Part 5 Lesson 3 Digestive Organs

Part 5 Lesson 4 Intestines

Part 5 Lesson 5 Simulation Wrap Up

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

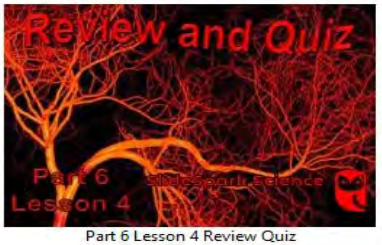
Part 6: Circulatory System: 8 Lessons of 50 minutes and 15 Page Follow Along Work Bundle, Circulatory System, What Goes In, What Goes Out, What System is Comprised Of, Heart, Blood, Blood Vessels, Cellular Respiration, Respiration Equation, Parts of Cellular Respiration, Functions of the Circulatory 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

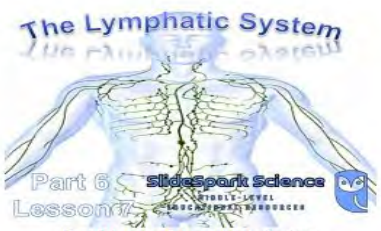
Part 6 Lesson 3 Arteries Veins



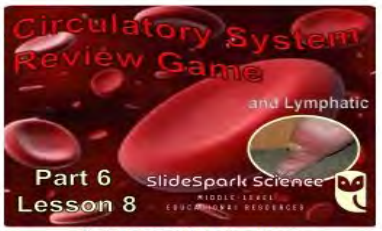
Part 6 Lesson 4 Review Quiz

Part 6 Lesson 5 Blood Cells

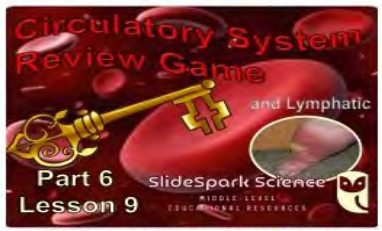
Part 6 Lesson 6 Blood Types



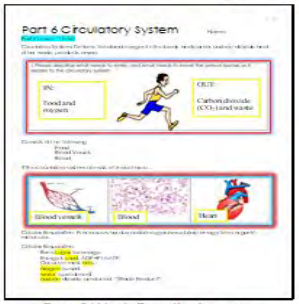
Part 6 Lesson 7 Lymphatic System



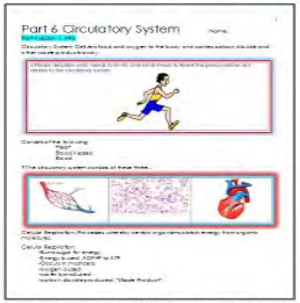
Part 6 Lesson 8 Review Game



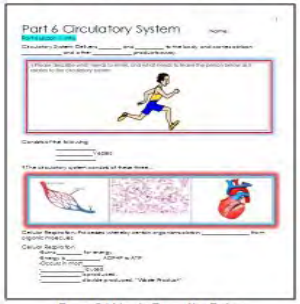
Part 6 Lesson 9 Review Game Answers



Part 6 Work Bundle Answers



Part 6 Work Bundle Print with notes



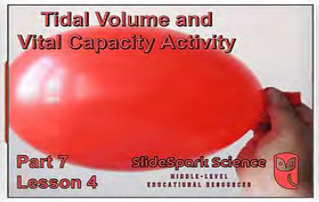
Part 6 Work Bundle Print

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

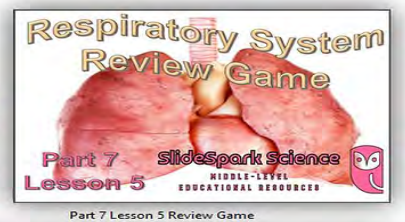
Part 7 Lesson 1 Respiratory System

Part 7 Lesson 2 Organs of Respiratory

Part 7 Lesson 3 Lungs Diaphragm



Part 7 Lesson 4 Lung Capcity Activity



Part 7 Lesson 5 Review Game

Part 7 Lesson 6 Review Game Answers

Part 7 Lesson 7 Cancer and Skin Cancer

Part 7 Lesson 8 Smoking and Cancer

Part 7 Lesson 9 Smoking Cont I

Part 7 Lesson 10 Smoking Cont II

Part 7 Lesson 11 Smoking Cont III (1)

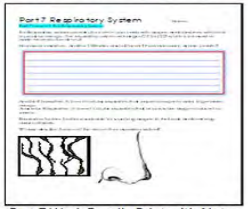
Part 7 Lesson 12 Vaping Dangers

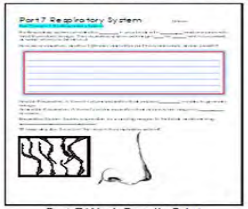
Part 7 Lesson 13 Campaign and Wrap Up

Part 7 Lesson 14 Review Game

Part 7 Lesson 15 Review Game Answers


Part 7 Work Bundle Answers

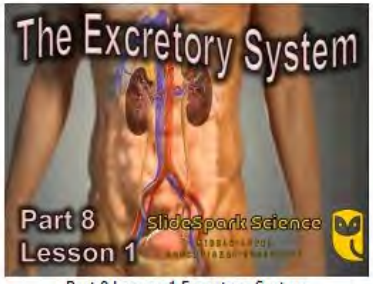

Part 7 Work Bundle Print with Notes


Part 7 Work Bundle Print

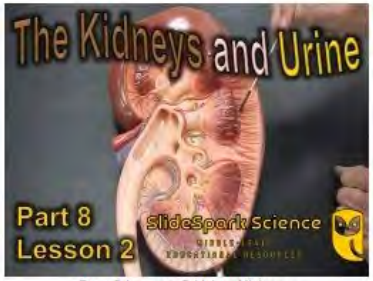
Part 7: Respiratory System

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

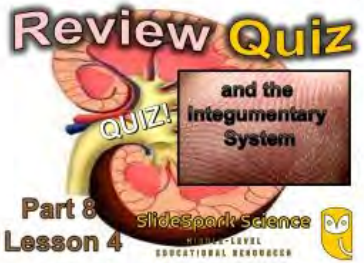


Part 8 Lesson 1 Excretory System



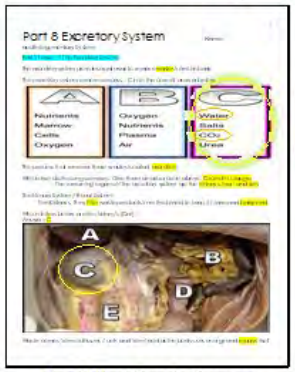
Part 8 Lesson 2 Urine Kidneys

Part 8 Lesson 3 Integumentary Systems

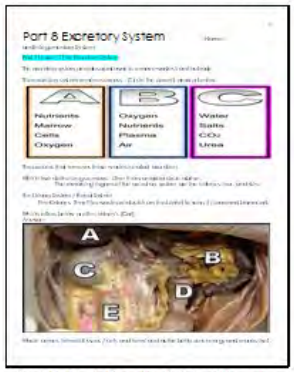


Part 8 Lesson 4 Review Quiz 10Q

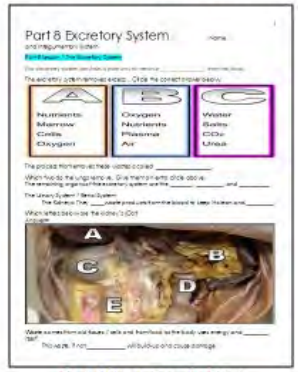
Part 8 Lesson5 Quiz Answers 10Q



Part 8 Work Bundle Answers



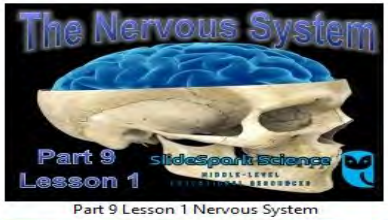
Part 8 Work Bundle Print with notes



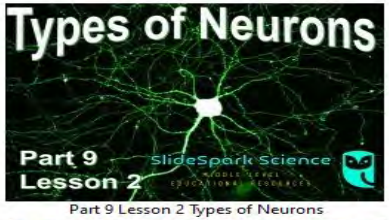
Part 8 Work Bundle Print

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

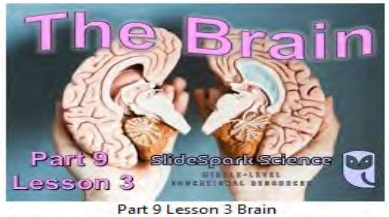
Part 9: The Nervous System



Part 9 Lesson 1 Nervous System



Part 9 Lesson 2 Types of Neurons



Part 9 Lesson 3 Brain

Part 9 Lesson 4 The Eye

Part 9 Lesson 5 Eye Parts Review

Part 9 Lesson 6 Observation Basics

Part 9 Lesson 7 Observation Cont

Part 9 Lesson 8 Smell

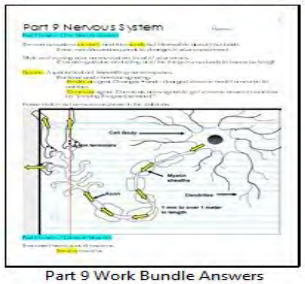
Part 9 Lesson 9 Hearing

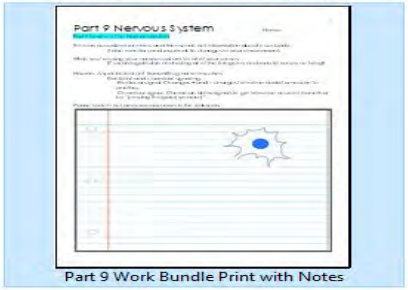
Part 9 Lesson 10 Times Have Changed

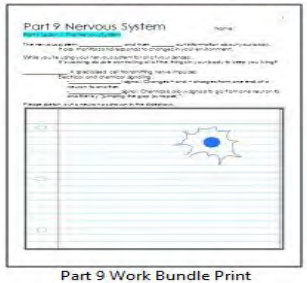
Part 9 Lesson 11 Touch Wrap Up

Part 9 Lesson 12 Review Game

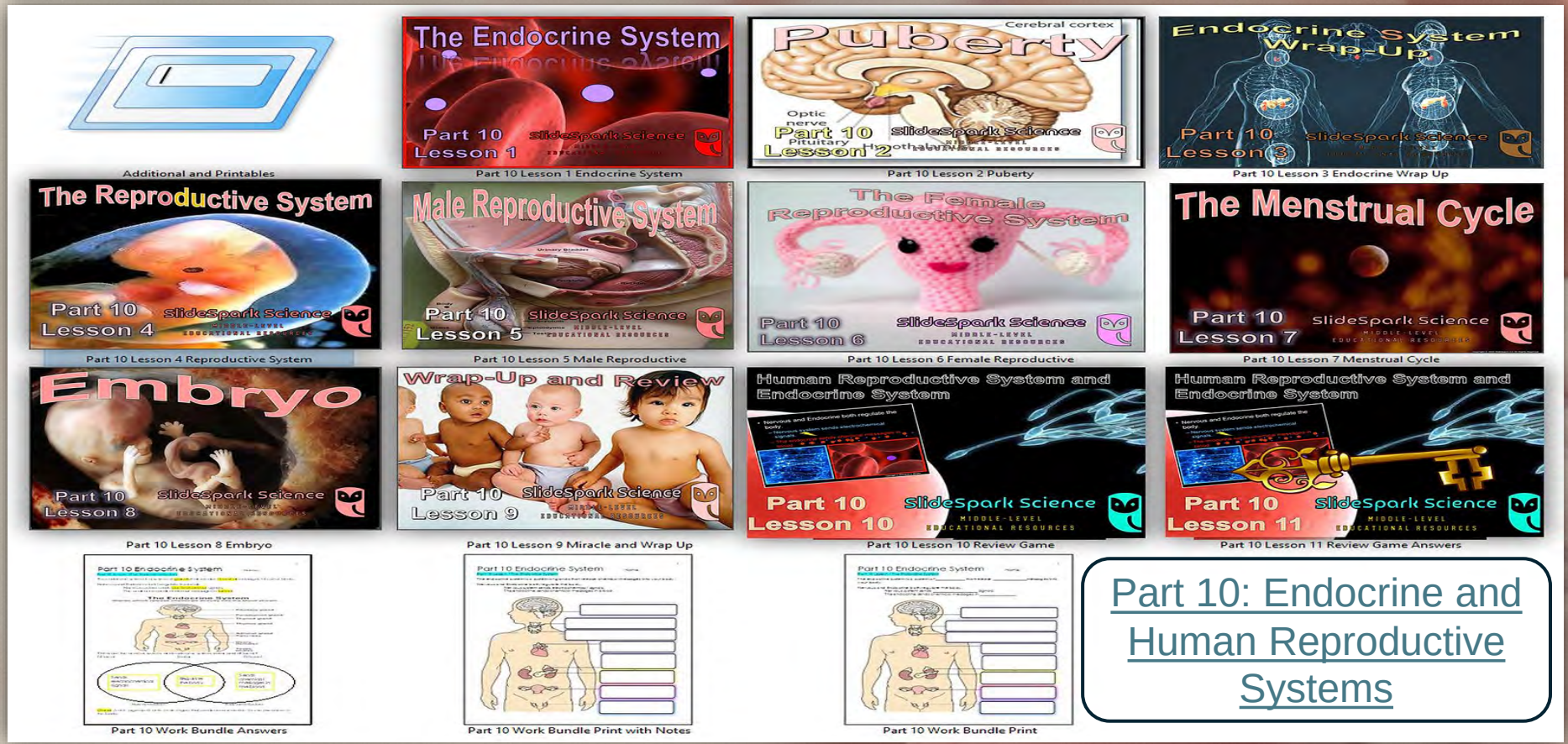
Part 9 Lesson 13 Review Game Answers


Part 9 Work Bundle Answers


Part 9 Work Bundle Print with Notes

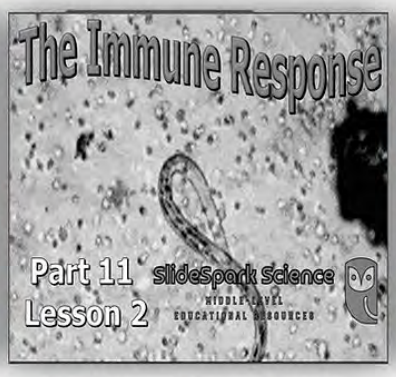

Part 9 Work Bundle Print

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, Lifes Greatest Miracle Movie Sheet, End Unit Assessment with Answer Version for Self Assessment



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

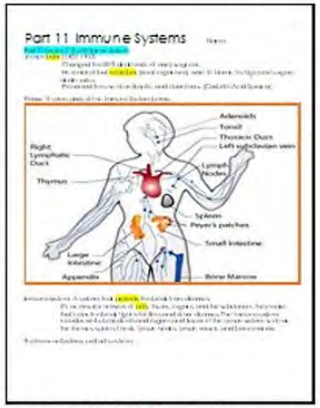


Part 11 Lesson 2 Immune Response

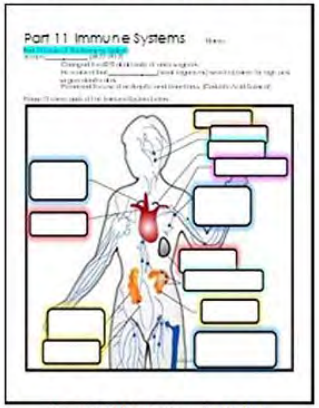
Part 11 Lesson 3 Inside Look Flu Vaccines

Part 11 Lesson 4 Review Game

Part 11 Lesson 5 Review Game Answers



Part 11 Work Bundle Answers



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, 

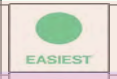
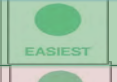
= More difficult, 

=Most difficult

Earth Science Units	Daily Lessons	Intended Grade	
Geology Topics Unit	60 Lessons	6-8 medium difficulty	MORE 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

Earth Science Curriculum

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	24 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

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

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MIDDLE-LEVEL

EDUCATIONAL RESOURCES

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