

Digestive System Unit

- This is the type of digestion where you physically break up the food?

5

Mechanical Digestion



- Which important macromolecule is the most abundant in the human body?
 - A.) Proteins
 - B.) Carbohydrates
 - C.) Water
 - D.) Vitamins
 - E.) Minerals
 - F.) Fats



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- **Chemical digestion involves the secretions of enzymes throughout your digestive tract.**
 - **These enzymes break the chemical bonds that hold food particles together. This allows food to be broken down into small, digestible parts.**



6 Lessons

-  Digestion is the process of converting chemical substances that can be used and used. **Chemical Digestion**



4

Owl +1 pt

CHEMICAL DIGESTION



- Saliva helps contains a chemical to begin digestion.



Form
Follows
Function

- **Illeocecal valve / sphincter:** Between small and large intestine.
 - Prevents material from flowing backwards.



Interactive Slideshows

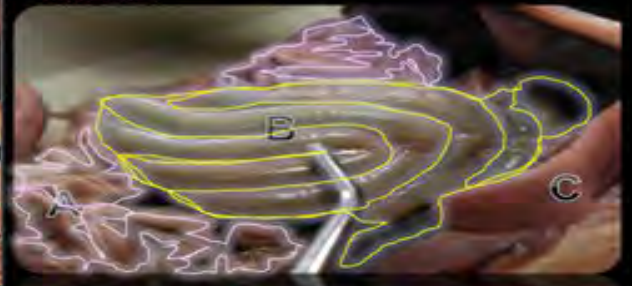
- Which is the cecum, small intestine, and large intestine?



- What is this?



- Which is the **large intestine**, which is the small intestine?



- Stomach: A sac-like part of the alimentary canal in which food is stored.



- When you swallow (swallow), your tongue (tongue) move food into your throat cause your epiglottis to close.



- On your food get broken all substances (molecules) and are absorbed into your bloodstream.

- Proteins to Amino Acids
- Starches to simple sugars
- Fats to Fatty Acids and Glycerol

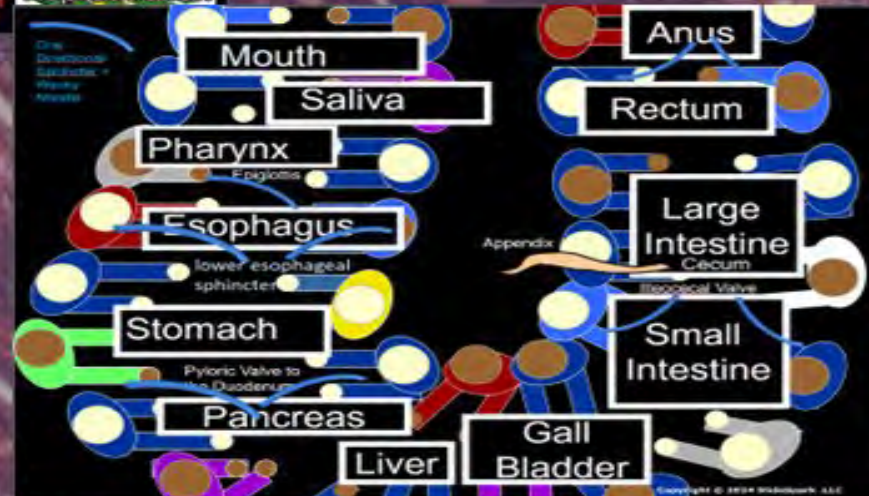
Once these are put into your bloodstream, they then can be used for energy and other purposes (building blocks).



- Appendectomy: Surgery to remove the appendix.
- Usually performed in an emergency / appendicitis



3 minute Appendectomy Surgery (No Audio)
<https://www.youtube.com/watch?v=73jhy1bi2MY>



Part 5 Digestive System

Describe the structure and function of the digestive system. Label the diagram of the digestive system. Write the name of the organ and its function.

1. Mouth: The mouth is the beginning of the digestive system. It is where food enters the body. The tongue is located in the mouth and helps to move food around.

2. Salivary Glands: The salivary glands produce saliva, which is a watery substance that helps to break down food. The major salivary glands are the parotid, sublingual, and submandibular glands.

3. Esophagus: The esophagus is a muscular tube that carries food from the mouth to the stomach. It has a series of rings of muscle that contract to move food down.

4. Stomach: The stomach is a large, muscular organ that churns food and mixes it with gastric juices. It has a J-shape and is located in the upper left part of the abdomen.

5. Small Intestine: The small intestine is a long, coiled tube that is where most of the digestion and absorption of nutrients occurs. It is divided into three parts: the duodenum, jejunum, and ileum.

6. Large Intestine: The large intestine is a wider tube that absorbs water and electrolytes from the remaining indigestible food matter. It is divided into the cecum, ascending colon, transverse colon, descending colon, and sigmoid colon.

7. Rectum and Sigmoid Colon: The rectum and sigmoid colon are the final parts of the large intestine. They store feces until it is time to defecate.

8. Anus: The anus is the opening at the end of the digestive tract through which feces are expelled from the body.

The diagram shows a cross-section of the human digestive system. The mouth is at the top, leading to the esophagus. The stomach is a large, J-shaped organ. The small intestine is a long, coiled tube. The large intestine is a wider tube that ends at the rectum and anus. The salivary glands are shown near the mouth. The diagram is labeled with numbers 1 through 8, corresponding to the parts described in the text.

[illegible]

Why? (Specialist, subject knowledge) - answer: Not clear, changes? why?

multisensory experience _____, comprising most of the field.

Chemical signals involve the reception of _____ throughout your digestive tract as well as _____ that are sent back together with other food to the stomach, duodenum and small intestine parts.

_____ is part of the digestive system from both mechanical and chemical aspects.

[illegible]

[Faint, illegible text from the reverse side of the page]



Read a passage together
 The Organizing Center was a combination of _____ and _____.
 Below it _____ all food that has been received in the spirit of generosity.
 Above this _____ people find other of course, the first step in the way.



Topic	Concepts and Definitions	Key Theorems	Applications
1. Linear Equations	Definition of a linear equation in two variables.	Slope-intercept form, point-slope form.	Graphing lines, finding intersections.
2. Systems of Linear Equations	Definition of a system of linear equations.	Substitution method, elimination method.	Real-world problems involving multiple constraints.
3. Inequalities	Definition of a linear inequality.	Solving inequalities, graphing solution sets.	Optimization problems, resource allocation.
4. Functions	Definition of a function, domain, range.	Graphing functions, identifying function types.	Modeling real-world phenomena.
5. Quadratic Equations	Definition of a quadratic equation.	Quadratic formula, factoring, completing the square.	Projectile motion, area calculations.
6. Quadratic Functions	Definition of a quadratic function.	Graphing parabolas, vertex form, standard form.	Optimization problems, physics applications.
7. Rational Equations	Definition of a rational equation.	Clearing denominators, solving for variables.	Problems involving rates and proportions.
8. Rational Functions	Definition of a rational function.	Graphing rational functions, identifying asymptotes.	Modeling complex relationships.
9. Exponential Equations	Definition of an exponential equation.	Properties of exponents, solving for variables.	Growth and decay problems.
10. Exponential Functions	Definition of an exponential function.	Graphing exponential functions, identifying growth/decay.	Population growth, radioactive decay.
11. Logarithmic Equations	Definition of a logarithmic equation.	Properties of logarithms, solving for variables.	Sound intensity, pH levels.
12. Logarithmic Functions	Definition of a logarithmic function.	Graphing logarithmic functions, identifying growth/decay.	Earthquake magnitude, biological growth.

[illegible]

(Signature)



Diagram illustrating the digestive system, showing the esophagus, stomach, and small intestine.

...the ...
...the ...
...the ...
...the ...



Structure 2 (middle of the end of the edge) implies that _____ middle
 → about separating of the end of the _____

Result 4: $\rightarrow$ Greater in the (original) *Erkenntnis* than in the *Erkenntnis* *Journal*

Explain what a disruptive technology is.

→ what happens to your brand when you use something?

[illegible]

Diagram illustrating the digestive system and the path of food:

- Oral Cavity:** Students use their mouths to chew food.
- Pharynx:** Student begins swallow reflex (shakes bag (Mechanical)).
- Esophagus:** Students swallow their food bag (Peristalsis) and student sprays with water (Mucous).
- Stomach:** Students churn food.
- Small Intestine:** Students use their small intestine to break down food.
- Large Intestine:** Students use their large intestine to absorb water.
- Rectum:** Students use their rectum to store feces.
- Anus:** Students use their anus to eliminate feces.

Diagram illustrating the digestive system and its components:

- Salivary Glands:** Produce saliva, which contains the enzyme amylase, to begin the digestion of carbohydrates.
- Stomach:** The large intestine (colon) is shown as a large, sac-like structure. It is responsible for the absorption of water and electrolytes, and the formation of feces.
- Small Intestine:** The small intestine is shown as a long, coiled tube. It is responsible for the absorption of nutrients and the digestion of food.
- Large Intestine:** The large intestine is shown as a large, sac-like structure. It is responsible for the absorption of water and electrolytes, and the formation of feces.
- Rectum:** The rectum is shown as a short, straight tube. It is responsible for the storage of feces before they are expelled from the body.
- Anus:** The anus is shown as the opening at the end of the digestive tract. It is responsible for the expulsion of feces from the body.
- Other Labels:**
 - Salivary Glands:** Produce saliva, which contains the enzyme amylase, to begin the digestion of carbohydrates.
 - Stomach:** The large intestine (colon) is shown as a large, sac-like structure. It is responsible for the absorption of water and electrolytes, and the formation of feces.
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[illegible]

A diagram of the human head and neck in profile, showing the location of the thyroid gland and associated structures. The thyroid gland is located in the neck, anterior to the trachea. The diagram includes labels for the thyroid gland, trachea, larynx, and other structures.

_____ Short tube of the end of the large intestine that stores wastes.
 _____ Waste is absorbed here, and butyrate in the intestine also makes ketone bodies.
 _____ In addition part of the alimentary canal in which food is stored.
 _____ Intense organ for food absorption.

Part 5 Review Game:
 1. A 2-4-6-8-10
 2. 100
 3. 100
 4. 100
 5. 100
 6. 100
 7. 100
 8. 100
 9. 100
 10. 100

[illegible]

Part 5 Review Game

Game 1:

Game 2:

Game 3:

Game 4:

Game 5:

Game 6:

Game 7:

Game 8:

Game 9:

Game 10:

Game 11:

Game 12:

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Game 197:

Game 198:

Game 199:

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

- The Pyloric valve is a strong ring of smooth muscle that lets food pass from the stomach to the duodenum.



- Chemical Digestion: Process of converting food into chemical substances that can be absorbed and used.



- **Gall Bladder:** A small pear-shaped organ that stores and concentrates bile from the liver.

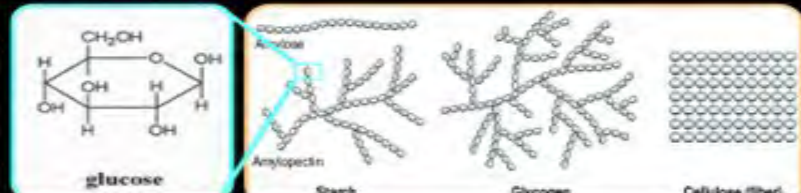


- **Pancreas:** Organ that aids in digestion by producing pancreatic juices that enter small intestine.
– Also aids in producing hormones.

Pancreatic juice contains...

Trypsin } Enzymes that break down
Lipase } proteins to amino acids,
Amylase } fats to fatty acids
and glycerol,
and starch to simple
sugars

Lead is a complex carbohydrate (starch). The ptyalin in your saliva along with your chewing broke the large sugar molecules into smaller (more sweet) sugar molecules.



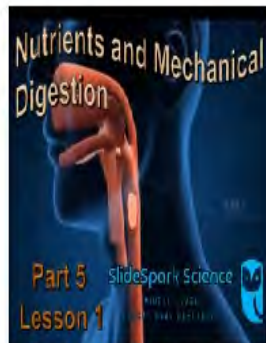
- This is the beginning of the small intestine. It Distributes **bile** (produced by the liver and stored in the gall bladder), **pancreatic acids** (pancreas), and other secretions to chemically breakdown food.

Duodenum



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 of 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



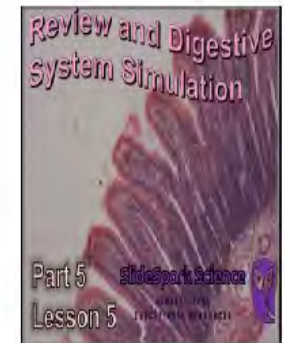
Part 5 Lesson 2 Digestion



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

SlideSpark Science



MIDDLE-LEVEL EDUCATIONAL RESOURCES

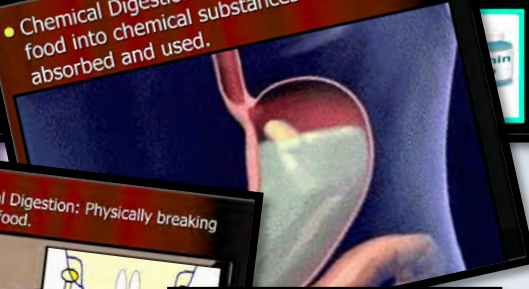
Interactive slideshows provide the roadmap for an amazing learning experience for students in grades 5-9. A Detailed set of work bundles chronologically follow the digital learning, providing a clear and intuitive roadmap to understanding. As the teacher or student advances through a slideshow, exciting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

- Nutrients include
 - Proteins
 - Carbohydrates
 - Fats
 - Vitamins
 - Minerals
 - Water



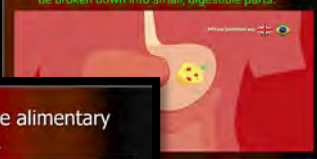
• Chemical Digestion: Process of converting food into chemical substances that can be absorbed and used.



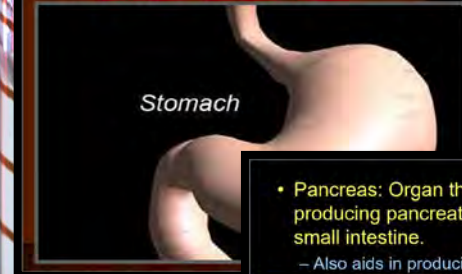
- Mechanical Digestion: Physically breaking down the food.



- Chemical digestion involves the secretions of enzymes throughout your digestive tract.
- These enzymes break the chemical bonds that hold food particles together. This allows food to be broken down into small, digestible parts.



- Stomach: A saclike part of the alimentary canal in which food is stored.



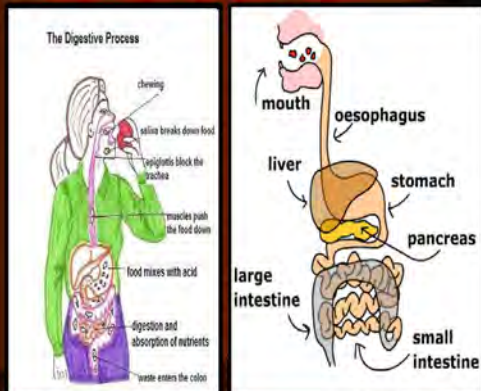
- Pancreas: Organ that aids in digestion by producing pancreatic juices that enter small intestine.
- Also aids in producing hormones.

Pancreatic juice contains...

Trypsin	} Enzymes that break down	proteins to amino acids.
Lipase		fats to fatty acids
Amylase		and starch to simple sugars



- Digestion: The process of breaking food down into nutrients.



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Calories: Amount of energy that can be obtained from nutrients.

Digestion: The process of _____ food down into _____.

Saliva helps to moisten your food and contains _____ to begin the process of digestion.

Pharynx (I'm 'ah-ing): Chemical (enzymes) in saliva that breaks starches into _____.

Eating bread -What happened? How did the taste change? Why?

Mechanical Digestion: _____ breaking down the food.

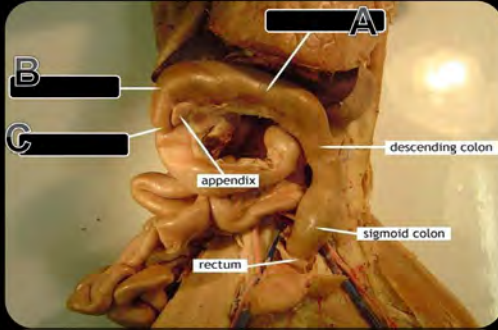
Chemical digestion involves the secretions of _____ throughout your digestive tract. These enzymes _____ the chemical _____ that hold food particles together. This _____ clumps food to be broken into small, digestible parts.

Name a part of the digestive system that uses both mechanical and chemical digestion. Describe how one or the other, or both!

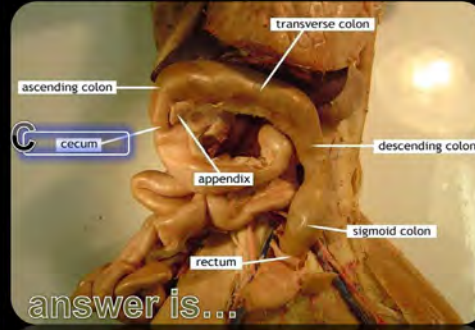
Red Slide Notes: Help students record important information in a fun and easy-to-understand way. Designed red-colored slides contain a few pieces of crucial information that students must record into their work bundle to complete the notes. Students will use these important notes throughout the work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

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

• Which is the cecum?

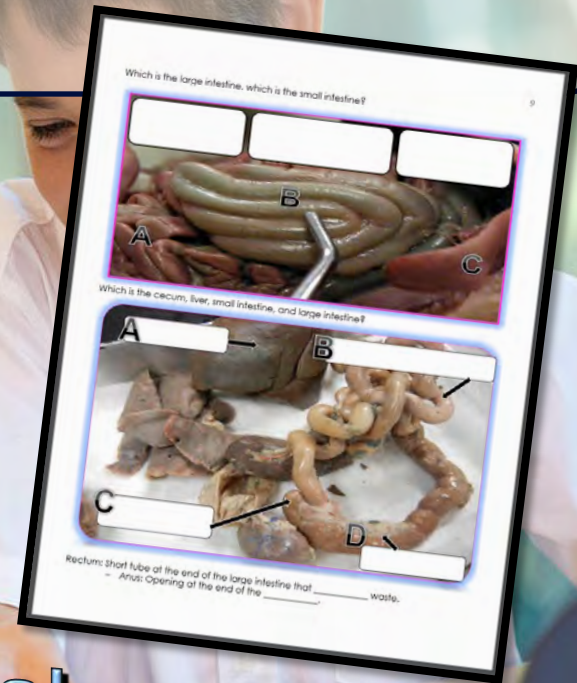


• Which is the cecum?



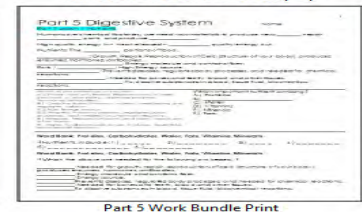
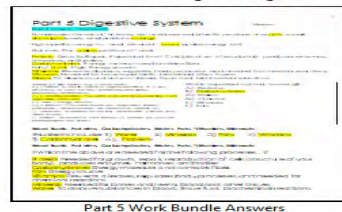
Next Slide

slideshow supports
Work Bundle



Lesson Planning

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

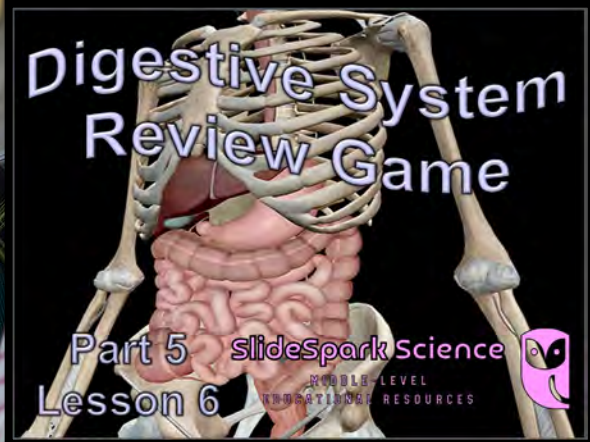


Follow Along Work Bundle

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 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 Game / Assessments

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



Part 5 Review Game

1-20 = 5 pt. **Part 5 Lesson 6**
*20*25* = Bonus = 1 pt.
(Secretly write out in correct space = 1 pt)
Final Question = 5 pt wager

Name: _____ Score: ____ / 100

NUTRARRIC	SUGAR AND SPICE	IT'S JUICY	WAVY GRAVY	UPSET and BLOATED
1) _____	6) _____	11) _____	16) _____	*21) _____
7) _____	8) _____	12) _____	17) _____	*22) _____
9) _____	10) _____	13) _____	18) _____	*23) _____
4) _____	9) _____	14) _____	19) _____	*24) _____
5) _____	10) _____	15) _____	20) _____	*25) _____

Final Question Wager: ____ / 5 Answer: _____

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Part 5 Review Game

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(Secretly write out in correct space = 1 pt)
Final Question = 5 pt wager

Name: _____ Score: ____ / 100

NUTRARRIC	SUGAR AND SPICE	IT'S JUICY	WAVY GRAVY	UPSET and BLOATED
1) Fat, water, carbs, proteins, minerals, and vitamins	6) Pharynx	11) Pancreas	16) Large intestine (colon)	*21) Toco Bell
2) Fat and carbs	7) Pancreas	12) Liver and gallbladder	17) Rectum	*22) Wendy's
3) Pyloric	8) Pyloric	A: Proteins to peptides/amino acids B: Starches to simple sugar C: Fats to glycerol/fatty acids	18) A: Liver B: Stomach C: Gallbladder	*23) Bart-O-Hill
4) Chemical digestion	9) Pyloric valve	14) Villi	19) A: Small intestine B: Large intestine C: Stomach D: Liver	*24) Nerdz
5) Mechanical digestion	10) Duodenum	15) Appendix	20) F: Make conditions more favorable for the harmful gut bacteria that make you sick	*25) Oscar Mayer

Final Question Wager: ____ / 5 Answer: _____

Mouth → Pharynx → Esophagus → Stomach → Duodenum → Small Intestine → Cecum → Large Intestine → Rectum → Anus

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Digestive System Review Game

Part 5 Slidespark Science
Lesson 7

• Which of these two are energy molecules?

Fats 	Water 	Carbohydrates
Proteins 	Minerals Ca Fe K Mg Na	Vitamins

2

• This is the chemical enzyme in saliva that breaks starches into sugars? **Answer: Ptyalin**

The Salivary Glands

A type of Amylase

3

• The digestion is the process of converting chemical substances that can be used and used. **Chemical Digestion**

4 Owl +1pt

CHEMICAL DIGESTION

Small Intestine
Large Intestine

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• This is the type of digestion where you physically break up the food?

Mechanical Digestion

5

• This is the part of the throat situated immediately behind the mouth and nasal cavity?

Pharynx

6

• This is the name for the wave-like motion that helps to move food down the esophagus?

• **Answer: Peristalsis**

Peristalsis

7

• This is the chemical enzyme that is produced in the stomach that contains HCL Hydrochloric Acid?

- A.) Lactase
- B.) Ptyalin
- C.) Pepsin**
- D.) Bile
- E.) Sucrose
- F.) Nobody Knows
- G.) None of the above
- H.) All of the above

Answer is...

8

• This is a strong ring of smooth muscle that lets food pass from the stomach to the duodenum?

- A.) Pharynx
- B.) Larynx
- C.) Anal Sphincter
- D.) Pyloric Valve**
- E.) Appendix
- F.) Nobody Knows
- G.) None of the above
- H.) All of the above

answer is...

Pyloric Valve

• This is the beginning of the small intestine. It Distributes **bile** (produced by the liver and stored in the gall bladder), **pancreatic acids** (pancreas), and other secretions to chemically breakdown food.

Duodenum

10

- Name this organ that releases digestive juices into the small intestine?

Pancreas

11

- These two organs aid in the production and distribution of bile? Liver, Gall Bladder



12

- Please record the substance that each becomes in the box.

13

A Proteins



A Peptides / Amino Acids

B Starches



B Simple Sugars

C Fats



C Glycerol Fatty Acids

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- The small intestine is covered with millions of small fingerlike structures called villi.



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- This is a small pouch that extends off of the large intestine.
 - Plays a role in preventing infection
 - Can rupture causing serious injury if not fixed.



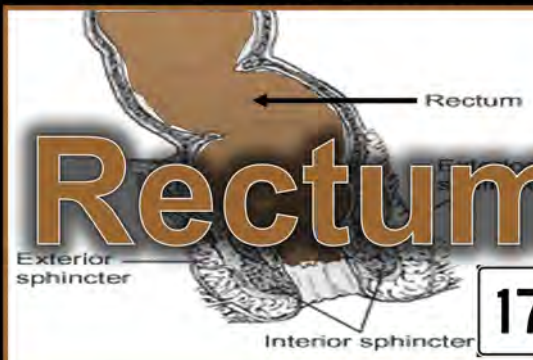
Copyright © 2024 Skillsworld LLC

- Water is absorbed, and bacteria make vitamins in this organ?



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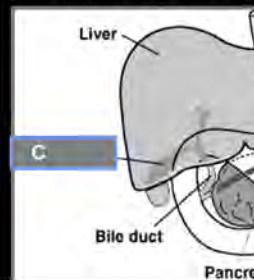
- Name this important organ pictured below?



17

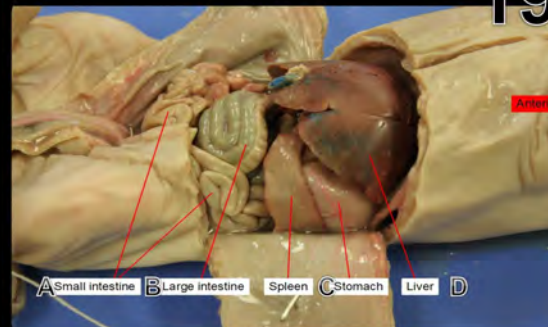
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- Name A, B, and C below?



- Please name A, B, C, D?

19



- Bacteria in the intestine do all of the following except?

- A.) Break down undigested food.
- B.) Neutralize some of the harmful by-products of food breakdown.
- C.) Aid the absorption of nutrients.
- D.) Produce certain vitamins.
- E.) A major part of the immune system is located in your gut, beneficial bacteria also help support the body's natural defenses.
- F.) Make conditions more favorable for the harmful gut bacteria that make you sick.

answer is...

20

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! Digestion Simulation

– Best Behavior Needed for every student!

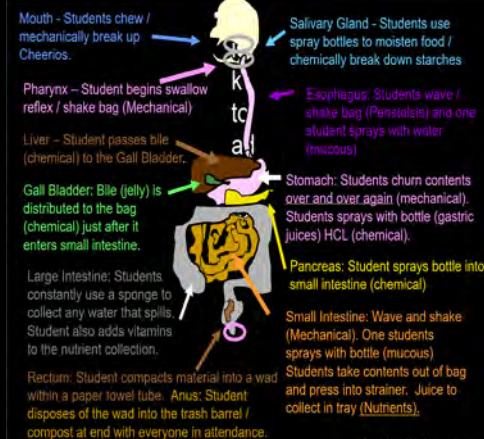
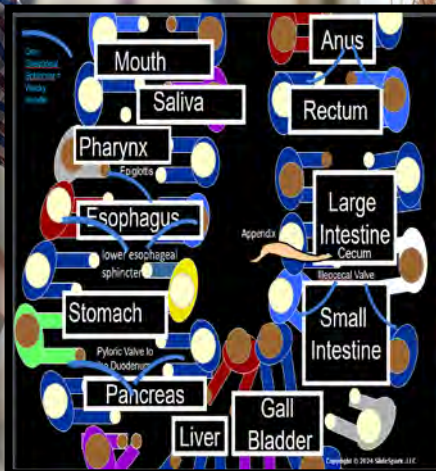
– Read the above again or everything below does not occur.

– In the following simulation, we will be placing food into an assembly line that breaks apart instead of put together.

– The class will be divided into various stations / organs of the digestive system.

– Each station will either be mechanical digestion, chemical digestion, or both.

– Students will add "chemicals" with spray bottles or mechanically shake / wave the bag and then pass it to the next group.



• Questions to Simulation?

– Your paragraph should include...

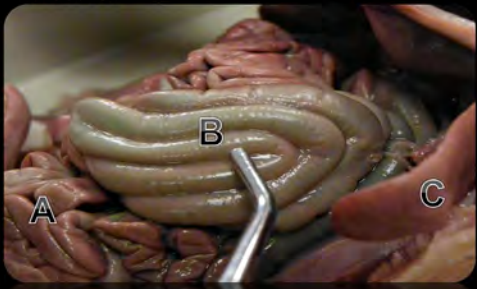
- Chemical digestion
- Mechanical digestion
- Mouth
- Esophagus
- Stomach
- Duodenum
- Liver
- Gall Bladder
- Pancreas
- Small Intestine
- Large Intestine (Water)
- Rectum



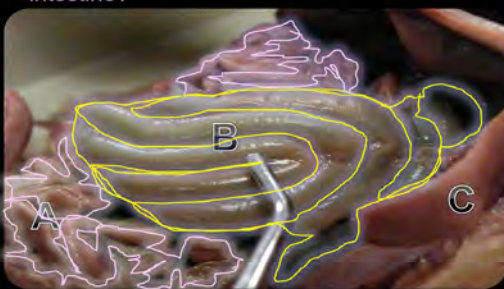
Built-in Assessment

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.

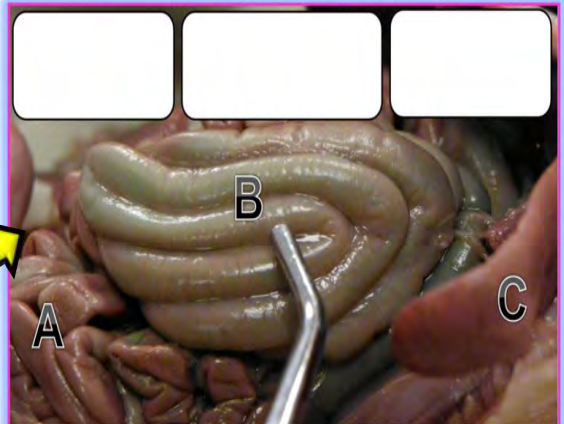
- Which is the large intestine, which is the small intestine?



- Which is the **large intestine**, which is the small intestine?



Which is the large intestine, which is the small intestine?



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.

- Video! Choking and the Heimlich Maneuver
– <http://www.youtube.com/watch?v=tEliEAn7b-U>



- Peristalsis in the intestines.
– https://www.youtube.com/watch?v=R-OhCLiP5U&ab_channel=AlejandraCork



- Optional "Kids Song" about Digestion. Still fun if you have some kid in you.
– <https://www.youtube.com/watch?v=fiRKW0W51Pg>



- Video! Peristalsis in the antrum (Lower part of stomach).
– <http://www.youtube.com/watch?v=o18UycWrsaa>



- Video Break! Fetal Pig Dissection (first half)
– https://www.youtube.com/watch?v=8RWsQvIT3bo&has_verified=1

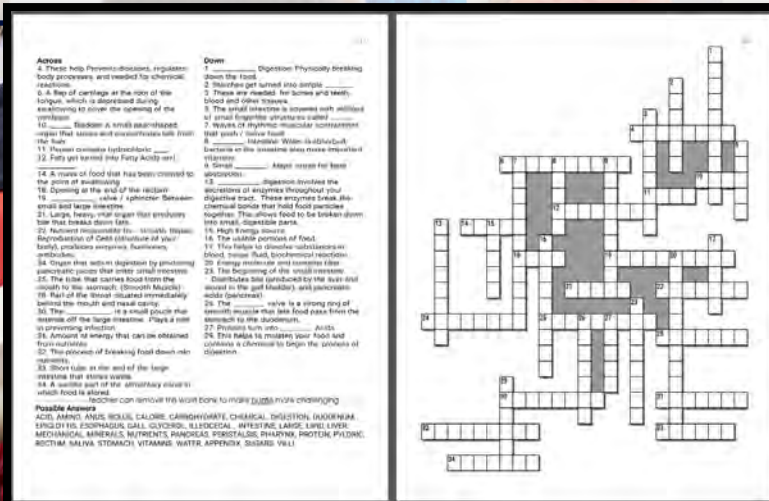


- Video Link Review of the Digestive System
– <https://www.youtube.com/watch?v=QYwscALNng>



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.



- Video Break! Fetal Pig Dissection (first half)
– https://www.youtube.com/watch?v=8RWsQvIT3bo&has_verified=1



- Video Break! Fetal Pig Dissection (first half)
– https://www.youtube.com/watch?v=8RWsQvIT3bo&has_verified=1



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.

Lessons Attached



[Part 5 Lesson 1 Nutrients Ch...](#)
Google Slides



[Part 5 Lesson 2 Digestion](#)
Google Slides



[Part 5 Lesson 3 Digestive Or...](#)
Google Slides



[Part 5 Work Bundle Print](#)
Google Docs



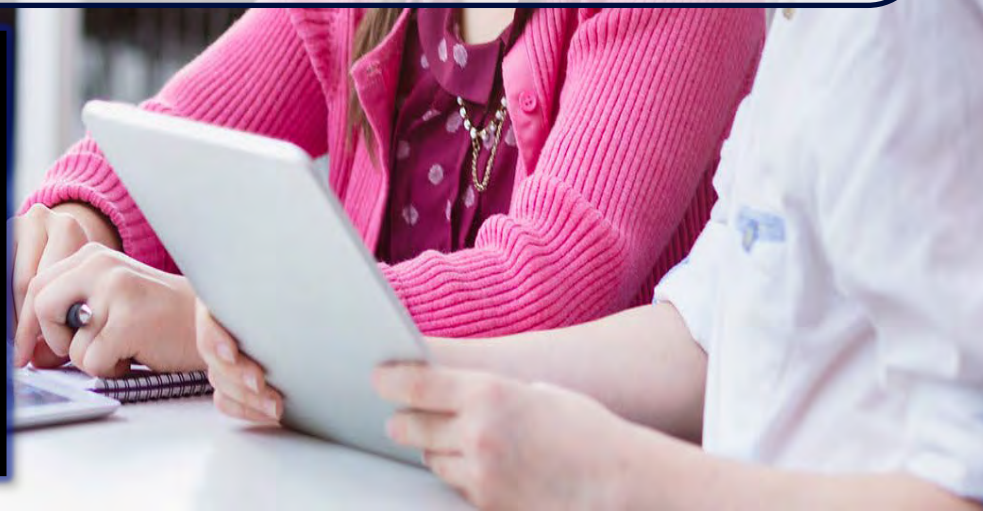
[Part 5 Lesson 6 Review Game](#)
Google Slides



[Part 5 Lesson 5 Simulation...](#)
Google Slides



[Part 5 Lesson 4 Intestines](#)
Google Slides



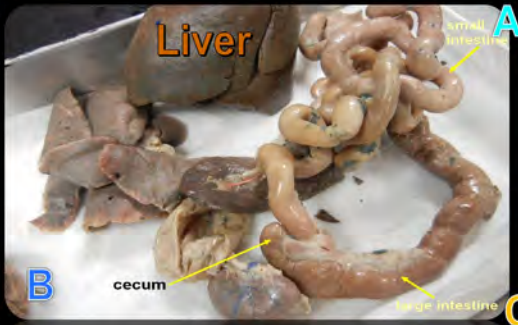
Built-in Questions and Assessments

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.

- Which is the cecum, small intestine, and large intestine?



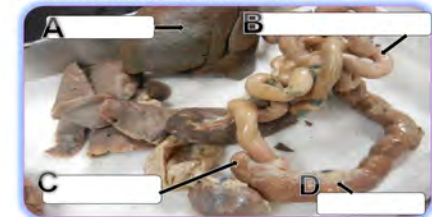
- Which is the **cecum**, **small intestine**, and **large intestine**?



Which is the large intestine, which is the small intestine?

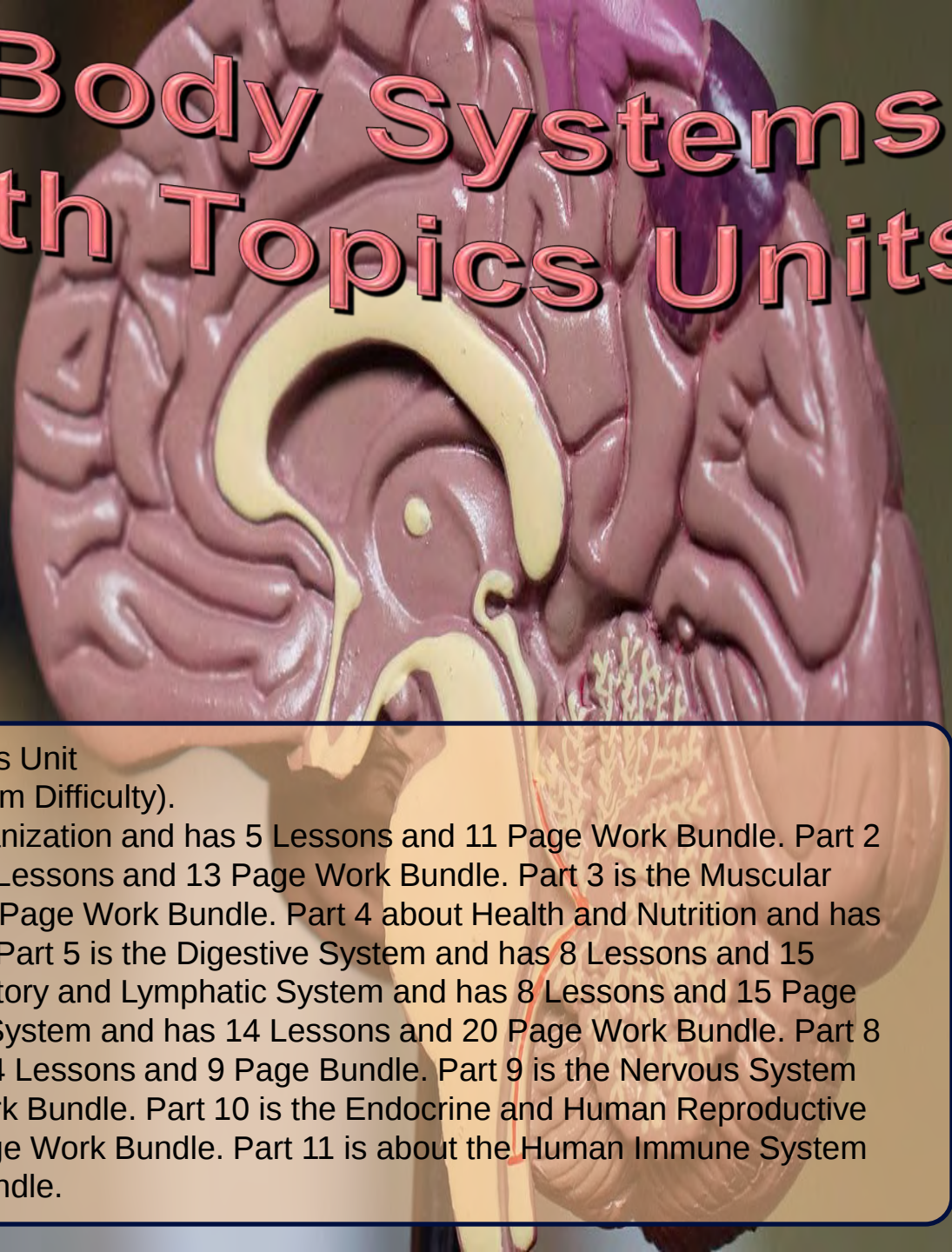


Which is the cecum, liver, small intestine, and large intestine?



Rectum: Short tube at the end of the large intestine that _____ waste.
Anus: Opening at the end of the _____

Human Body Systems and Health Topics Units

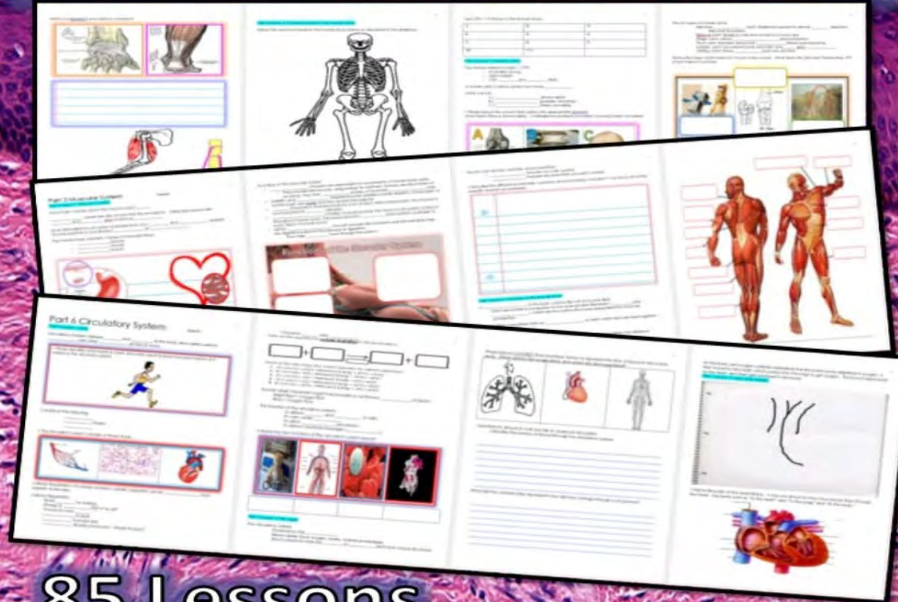


Human Body Systems and Health Topics Unit

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

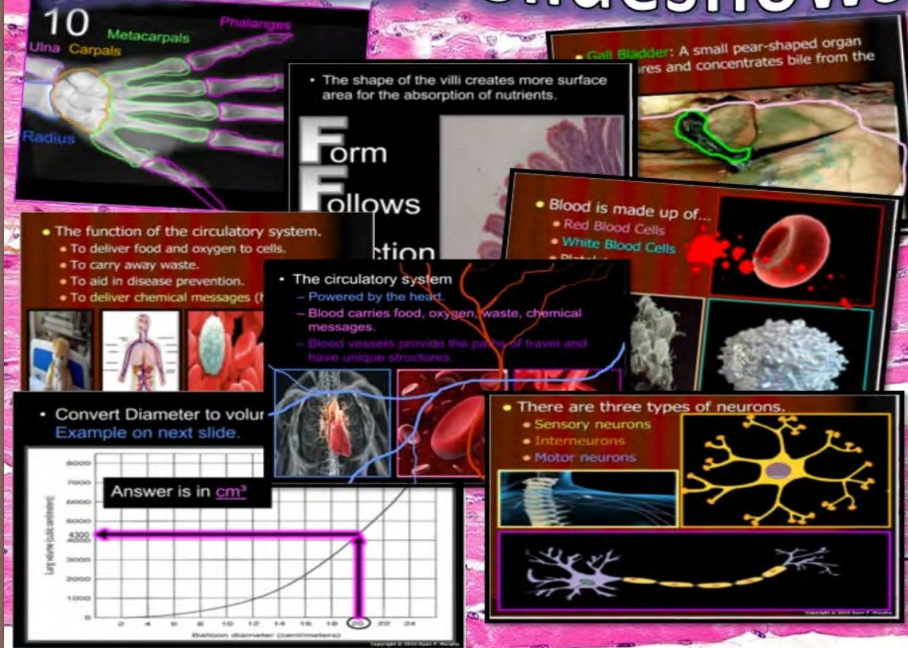
Part 1 is about Levels of Biological Organization and has 5 Lessons and 11 Page Work Bundle. Part 2 is about the Skeletal System and has 7 Lessons and 13 Page Work Bundle. Part 3 is the Muscular System and contains 4 Lessons and 10 Page Work Bundle. Part 4 about Health and Nutrition and has 12 Lessons 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

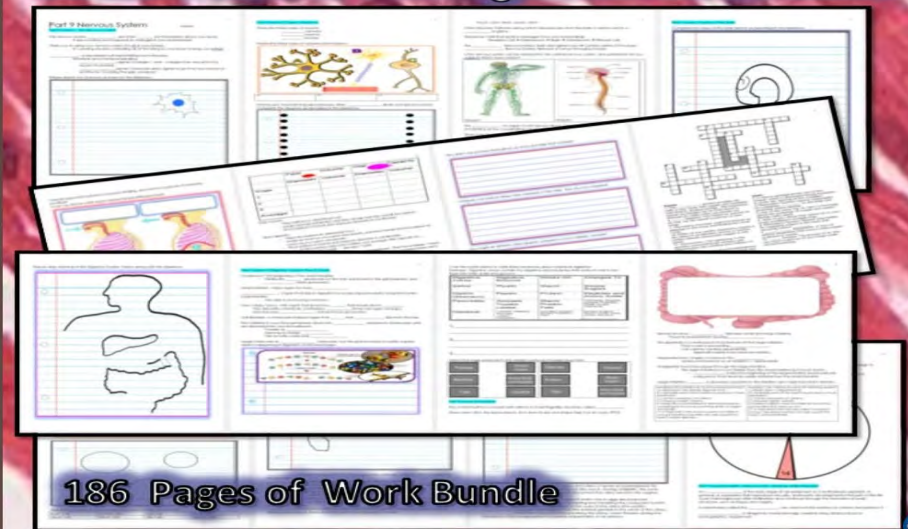
Interactive Slideshows



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

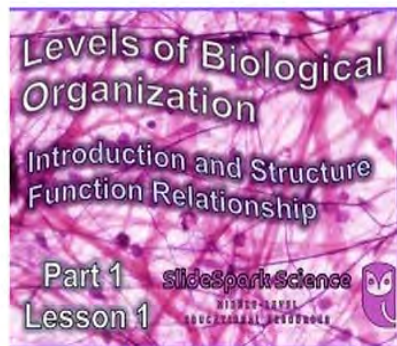


With Follow Along Work Bundles

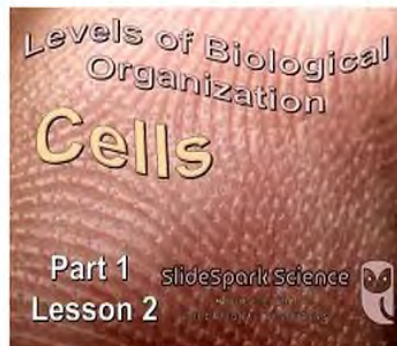


Human Body Systems Unit Part 1 Download : 5 Lessons of 50 Minutes and 11 Page Follow Along Work Bundle, For fun Quiz to see if student can name some Human Organs, Answers to the Quiz, Description of Anatomy, Introduction to Concept Form Follows Function, Describe how a classroom tool demonstrates Form 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

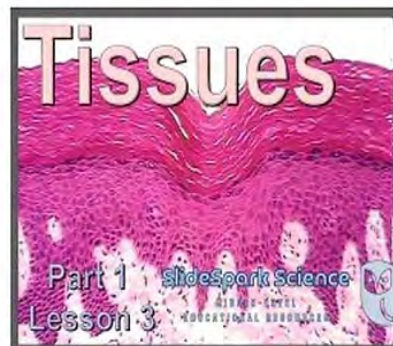
Part 1: Levels of Biological Organization



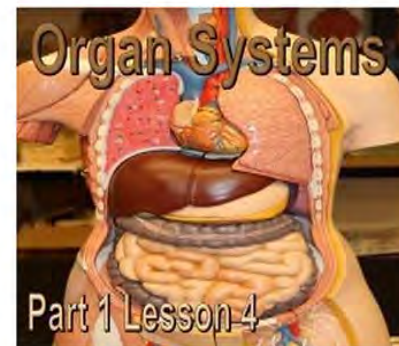
Part 1 Lesson 1 Intro Structure Function



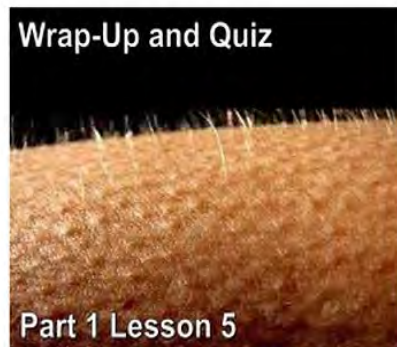
Part 1 Lesson 2 Levels and Cells



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 Levels of Biological Organization Name: _____

Part 1 Review

Working in small groups, Name the Organ of the human body and the system it belongs to if you know it. Let's see what you already know. (For fun)

1) LIVER	2) STOMACH	3) BLOOD VESSELS	4) BRAIN
5) HEART	6) PANCREAS	7) KIDNEY	8) LUNGS
9) BLADDER	10) SPLEEN	11) GALL BLADDER	12) RECTUM
13) NACRUA	14) ESOPHAGUS	15) TESTICLE	16) EAR
17) THYROID	18) UTERUS	19) ADRENAL	20) TONGUE

Source: <https://www.kids-encyclopedia.com/>

Anatomy: the science of the **shape** and **structure** of organisms.

(III) **Form Follows Function**: Part of the body are shaped to perform a particular job.

- Students will pick an object with eyes closed.
- Make a quick sketch below.

Form Follows Function

A paper clip hold sheets of paper together, usually made of steel wire bent to a looped shape. The paperclip utilizes torsion and elasticity in the wire, and friction between wire and paper to hold paper together. A simple bending of wire creates a nice place to slide and hold paper. A simple example of Form Follows Function

Part 1 Work Bundle Print Answers

Part 1 Levels of Biological Organization Name: _____

Part 1 Review

Working in small groups, Name the Organ of the human body and the system it belongs to if you know it. Let's see what you already know. (For fun)

1)	2)	3)	4)
5)	6)	7)	8)
9)	10)	11)	12)
13)	14)	15)	16)
17)	18)	19)	20)

Source: _____

Anatomy: the science of the _____ and _____ of organisms.

(III) _____ Parts of the body are shaped to perform a particular job.

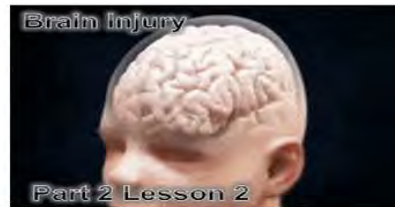
- Students will pick an object with eyes closed.
- Make a quick sketch below.

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 Brain 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, Spongy 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



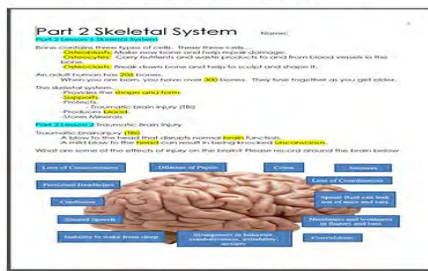
Part 2 Lesson 6 Review Injuries



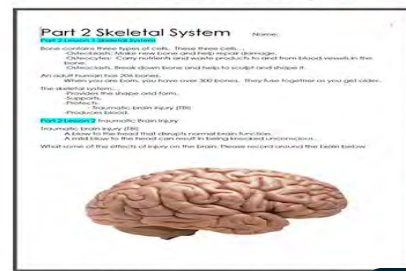
Part 2 Lesson 7 Review Game



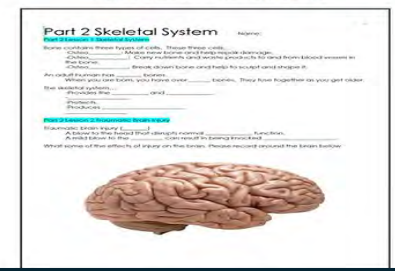
Part 2 Lesson 8 Review Game Answers



Part 2 Work Bundle Answers



Part 2 Work Bundle Print with Notes

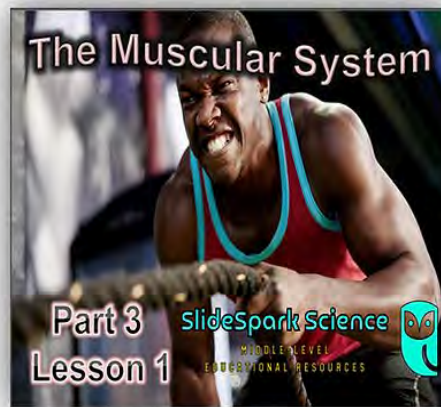


Part 2 Work Bundle Print

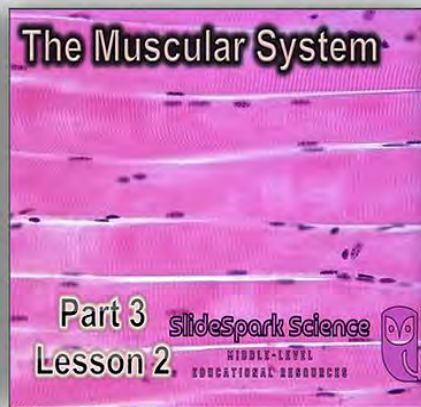
Part 2: Skeletal System

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



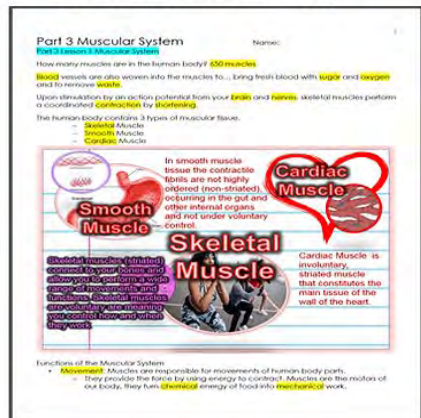
Part 3 Lesson 3 Chicken Leg Dissection



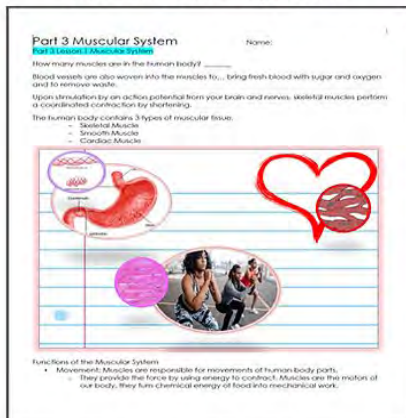
Part 3 Lesson 4 Review Game



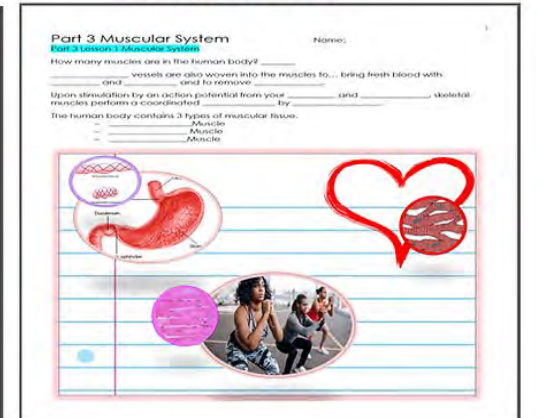
Part 3 Lesson 5 Review Game Answers



Part 3 Work Bundle Answers



Part 3 Work Bundle Print Notes



Part 3 Work Bundle Print

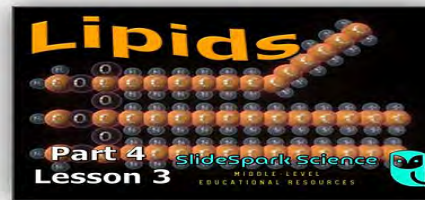
Part 4: Health and Nutrition: 12 Lessons of about 50 minutes and 25 Page Follow Along Work Bundle, CHNOPS/SPONCH biologically important elements, Carbon and Organ Chemistry, % of SPONCH Elements in Living Things, Graphing this %, CaFé, Calcium, Iron, Organic Building Blocks, Carbohydrates, Lipids, Proteins,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



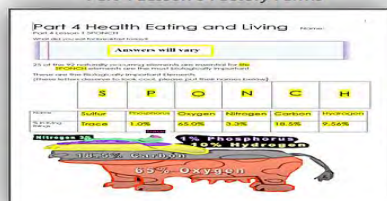
Part 4 Lesson 10 Eating Disorders



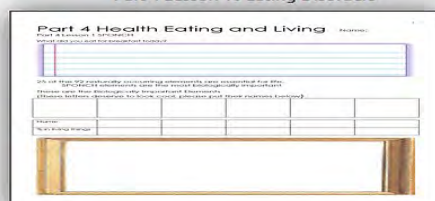
Part 4 Lesson 11 Review Game



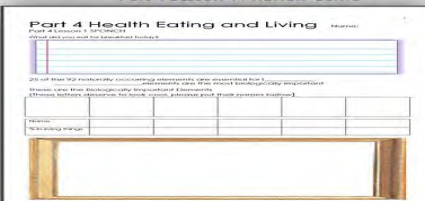
Part 4 Lesson 12 Review Game Answers



Part 4 Work Bundle Answers



Part 4 Work Bundle Print with Notes

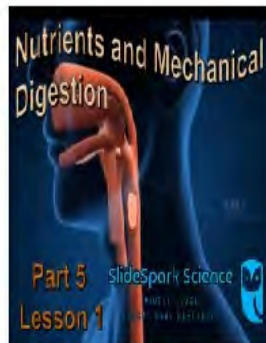


Part 4 Work Bundle Print

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 of 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 Circulatory Intro



Part 6 Lesson 2 Heart



Part 6 Lesson 3 Arteries Veins



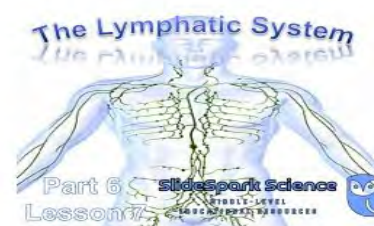
Part 6 Lesson 4 Review Quiz



Part 6 Lesson 5 Blood Cells



Part 6 Lesson 6 Blood Types



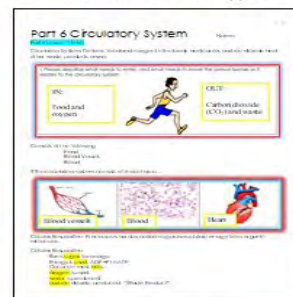
Part 6 Lesson 7 Lymphatic System



Part 6 Lesson 8 Review Game



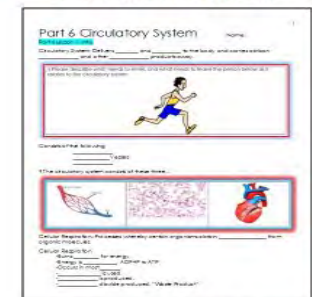
Part 6 Lesson 9 Review Game Answers



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 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



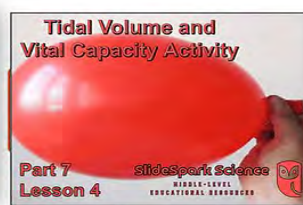
Part 7 Lesson 1 Respiratory System



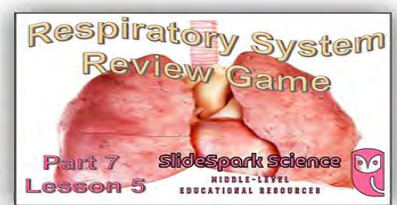
Part 7 Lesson 2 Organs of Respiratory



Part 7 Lesson 3 Lungs Diaphragm



Part 7 Lesson 4 Lung Capacity 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



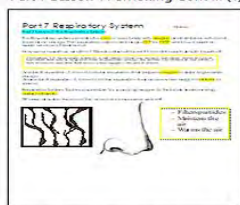
Part 7 Lesson 13 Campaign and Wrap Up



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

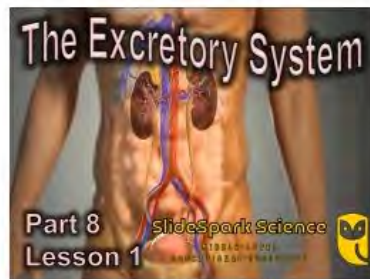


Part 7 Work Bundle Print

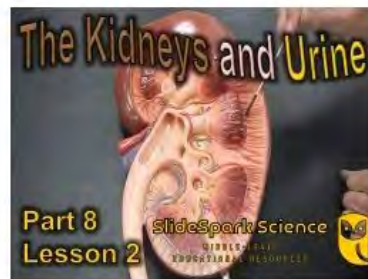
Part 7: Respiratory System

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



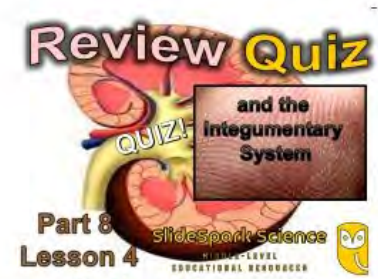
Part 8 Lesson 1 Excretory System



Part 8 Lesson 2 Urine Kidneys



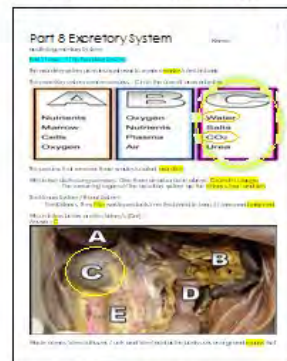
Part 8 Lesson 3 Integumentary Systems



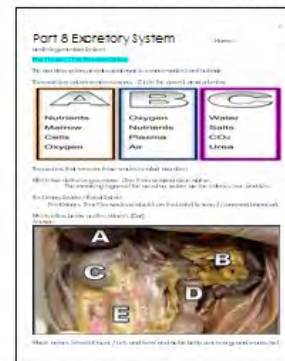
Part 8 Lesson 4 Review Quiz 10Q



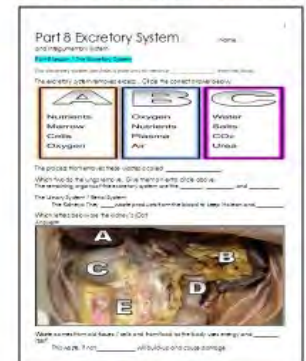
Part 8 Lesson 5 Quiz Answers 10Q



Part 8 Work Bundle Answers



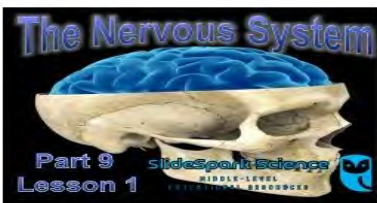
Part 8 Work Bundle Print with notes



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



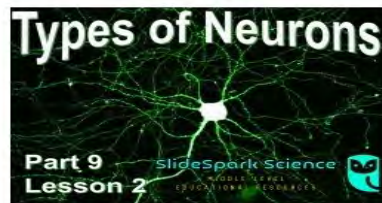
Part 9 Lesson 5 Eye Parts Review



Part 9 Lesson 9 Hearing



Part 9 Lesson 13 Review Game Answers



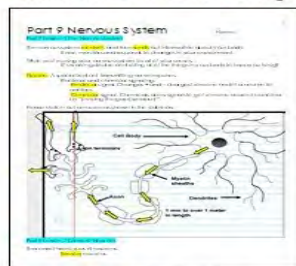
Part 9 Lesson 2 Types of Neurons



Part 9 Lesson 6 Observation Basics



Part 9 Lesson 10 Times Have Changed



Part 9 Work Bundle Answers



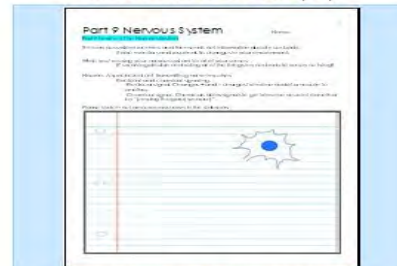
Part 9 Lesson 3 Brain



Part 9 Lesson 7 Observation Cont



Part 9 Lesson 11 Touch Wrap Up



Part 9 Work Bundle Print with Notes



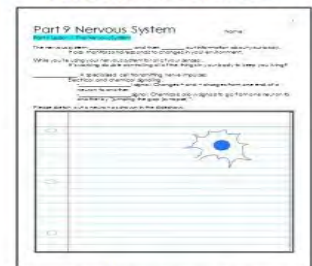
Part 9 Lesson 4 The Eye



Part 9 Lesson 8 Smell



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



Additional and Printables



Part 10 Lesson 1 Endocrine System



Part 10 Lesson 2 Puberty



Part 10 Lesson 3 Endocrine Wrap Up



Part 10 Lesson 4 Reproductive System



Part 10 Lesson 5 Male Reproductive



Part 10 Lesson 6 Female Reproductive



Part 10 Lesson 7 Menstrual Cycle



Part 10 Lesson 8 Embryo



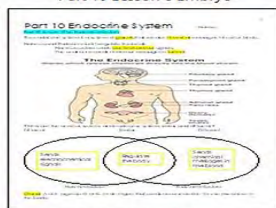
Part 10 Lesson 9 Miracle and Wrap Up



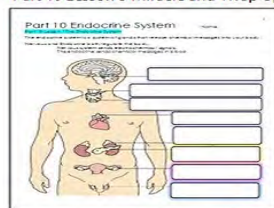
Part 10 Lesson 10 Review Game



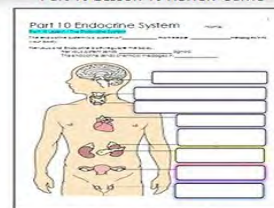
Part 10 Lesson 11 Review Game Answers



Part 10 Work Bundle Answers



Part 10 Work Bundle Print with Notes



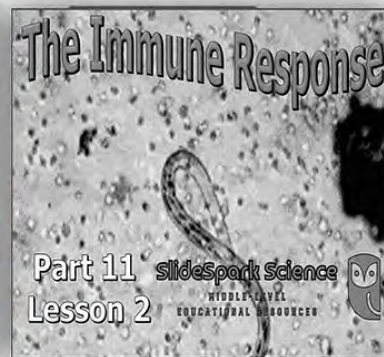
Part 10 Work Bundle Print

Part 10: Endocrine and Human Reproductive 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 2 Immune Response



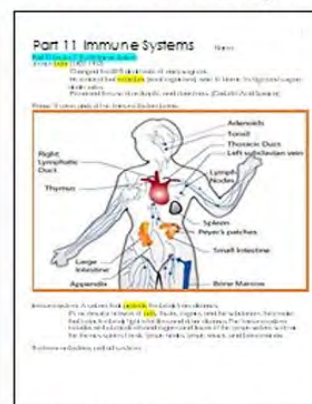
Part 11 Lesson 3 Inside Look Flu Vaccines



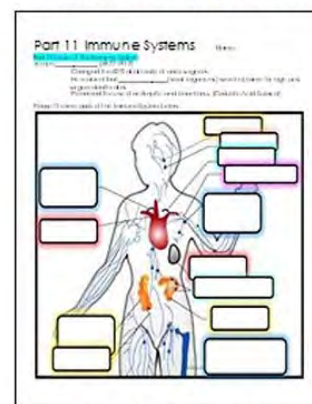
Part 11 Lesson 4 Review Game



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	
Weather and Climate Unit	40 Lessons	6-8 medium difficulty	
Astronomy Unit	60 Lessons	6-8 medium difficulty	
Weathering, Soil Sciences	28 Lessons	5-7 easier	
Rivers and Water Quality	25 Lessons	5-7 easier	
Water Molecule Unit	20 Lessons	5-7 easier	

Life Science Units

Life Science Units	Daily Lessons	Intended Grade	
Ecology Feeding Levels Unit	13 Lessons	5-6 easier	
Ecology Interactions Unit	30 Lessons	5-6 easier	
Ecology Abiotic Factors Unit	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	

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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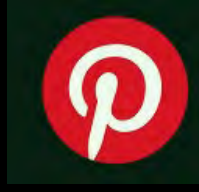
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