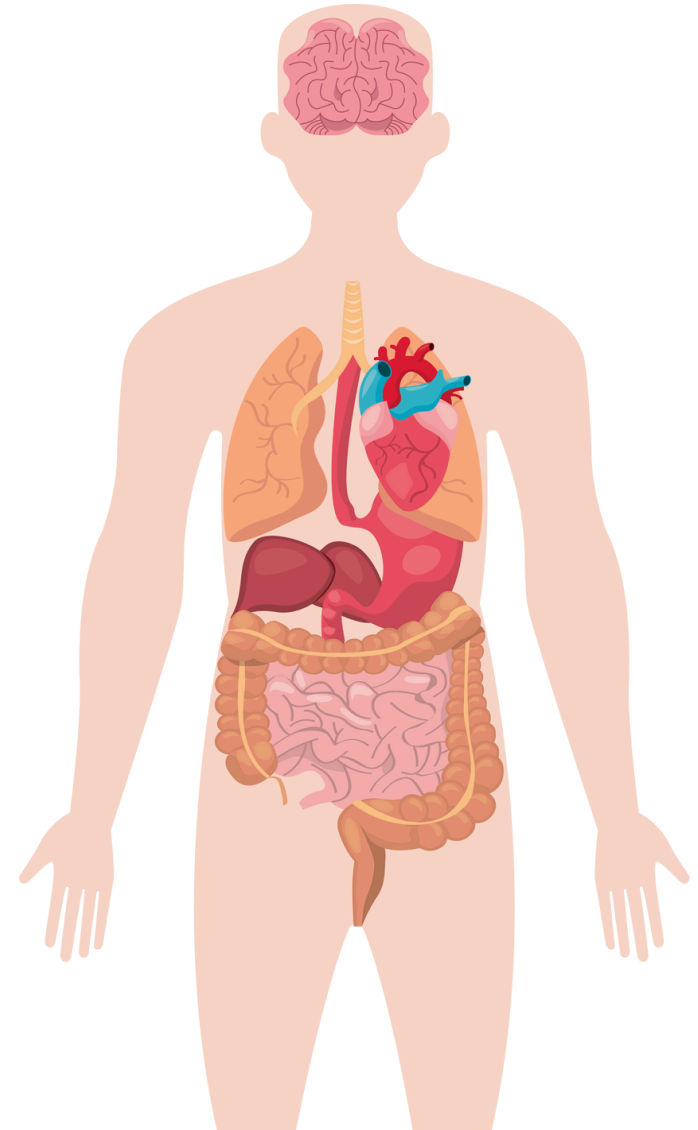


Human Body Systems Unit

- **Digestive, Circulatory, Respiratory, Nervous Systems**
- **Lesson & Engaging Activities**
- **Daily Teaching Schedule**



Teach With
Fergy

UPGRADE to the Bundle

Save 70% and
upgrade to the
full year Biology
Curriculum

CLICK HERE



Biology 1 Curriculum

- ✓ Complete Biology 1 Curriculum
- ✓ Google & Distance Learning Ready
- ✓ Engaging, Inquiry-Based Lessons
- ✓ Comprehensive Coverage



No Prep - Ready to Go!

Human Body Systems

Includes:

- **Lessons and Activities**

Digestive System

- Structure and components
- Function of the digestive system

Circulatory System

- Structure and function of blood
- Circulation
- Blood vessels, heart, and heart rate
- Medical conditions

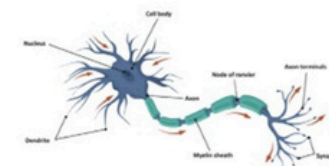
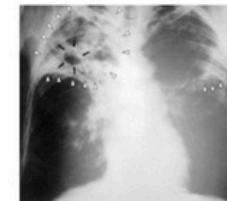
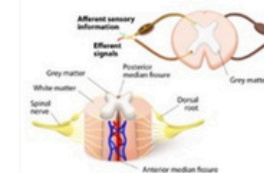
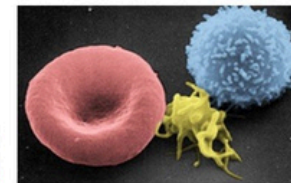
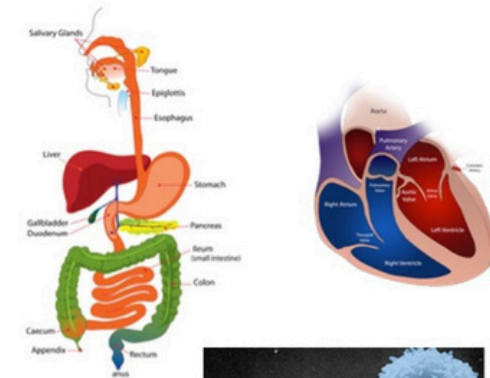
Respiratory System

- What respiration is
- Respiration and the circulatory system
- Gas exchange
- Diseases

Includes: Nervous System

- Neural transmission and potential difference
- Neurotransmitters
- Neural anatomy

TW/F



Lessons Include Teacher and Student Versions - Videos Embedded in Lessons



Human Digestive System

- The reason we have a digestive system
- Main Components
- Digestive Enzymes
- Chemical and Mechanical Digestion
- Digestion Activities
- Digestive Organs
- Accessory Organs

Human Circulatory System

- Blood circulations
 - Pulmonary circulation
 - Systemic circulation
- Blood vessels
- Red vs. blue blood
- Arteries, veins, and capillaries
- The blood and blood cells
- The heart
- Heart rate
- Medical conditions
- Prevention

Respiratory System

- Respiration Rate
- The Respiratory and Circulatory Systems
- Respiratory System Structures
- Gas Exchange
- Other Animals
- Diseases of the Respiratory System

The Nervous System – Signal Transmission

- Neural Transmission
- Potential Difference
 - Resting Potential, Depolarization, Action Potential, Repolarization
- Membrane Channels
- Sodium/Potassium Pump
- Synaptic Transmission
- Neurotransmitters – Types of Functions
- Synapse Inhibition

The Nervous System - Anatomy

- Vertebrate Nervous System
- CNS & PNS (Somatic and Autonomic)
- The Spinal Cord
- The Parts of the Brain
- Cells of the Nervous System
- Cell Division
- Neuron Anatomy
- Neuron Support System
- Reflex Arc

Google Access

Thank you for your purchase. Clicking the link button below will automatically create a copy of the Google resources and place them into your Google Drive. You'll find the folder inside the "Shared with me" section on the left side of your Drive.

Important: Before you click, make sure you're signed in to the Google account you'd like the resources placed into. If the resources are added to the wrong account, simply sign out and then into the correct one and repeat the process.

[Click here to place a copy of your resources into your Google account](#)

Google Classroom Ready
One-Click Google Slides Access

Action Potential

- K⁺ channels open in the first area and K⁺ ions diffuse out
- This starts the repolarization process behind the action potential

Action Potential

- The action potential triggers Na⁺ channels to open in the next area of membrane
- K⁺ channels open in the first area and K⁺ ions diffuse out
- This starts the repolarization process behind the action potential

Student and Teacher versions of the presentations

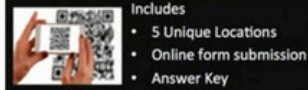
Diseases - Asthma

- Severe allergic reaction characterized by the constriction of bronchioles
- Less air sent to alveoli
- Symptoms are relieved using an inhaler

Videos embedded directly into the slides. One-click access

Engaging Activities

Device-Based Scavenger Hunt The Digestive System



- Includes
- 5 Unique Locations
 - Online form submission
 - Answer Key

Works on all smartphones, tablets, Chromebooks and laptops

- 100% Digital
- Simulations
- Quizzes
- Videos
- Games
- Word Scramble
- and more



The Human Digestive System Lab Station Activity



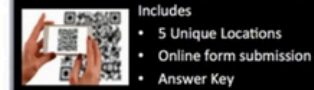
7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Smog Its Causes and Dangers Scientific Reading Comprehension Article and Extension Activity



Improve your students' Literacy and Analysis Skills, use as an Emergency Substitute Plan or

Device-Based Scavenger Hunt The Circulatory System



- Includes
- 5 Unique Locations
 - Online form submission
 - Answer Key

Works on all smartphones, tablets, Chromebooks and laptops

- 100% Digital
- Simulations
- Quizzes
- Videos
- Games
- Word Scramble
- and more

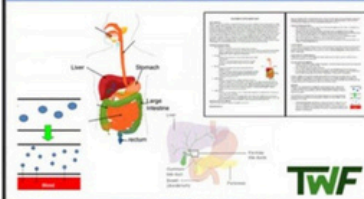


Heart Disease Scientific Reading Comprehension Article



Improve your students' Scientific Literacy and Substitute classroom

Human Digestion and the Digestive System



Improve your students' Scientific Literacy and Analysis Skills, use as an Emergency Substitute Plan or classroom.

Word Search and Scramble

THREE Activities in One!

1. Basic 25-Term Word Search
2. Scrambled Words Word Search
3. Word Scramble and Define Activity

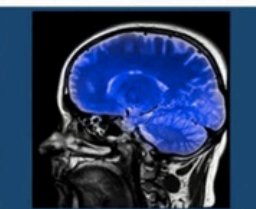


The Nervous System Scientific Reading Comprehension Article and Extension Activity



Improve your students' Literacy and Analysis Skills, use as an Emergency Substitute Plan, or create Applicability in your classroom

The Nervous System Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

The Human Respiratory System - Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

The Human Circulatory System - Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Respiratory System Exit Ticket



- ✓ One-click to place the form in your Google Drive
- ✓ Includes 4 topic-specific questions
- ✓ Automatically graded and data presented via graphs
- ✓ Can accessed from any device or projected to class
- ✓ Can be used as exit tickets or start of class review



Circulatory System Exit Ticket



- ✓ One-click to place the form in your Google Drive
- ✓ Includes 4 topic-specific questions
- ✓ Automatically graded and data presented via graphs
- ✓ Can accessed from any device or projected to class
- ✓ Can be used as exit tickets or start of class review



Human Digestive System Exit Ticket



- ✓ One-click to place the form in your Google Drive
- ✓ Includes 4 topic-specific questions
- ✓ Automatically graded and data presented via graphs
- ✓ Can accessed from any device or projected to class
- ✓ Can be used as exit tickets or start of class review



Daily Teaching Schedule

UNIT – Human Body Systems **18 DAYS TOTAL**

Digestive System – 5 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
2	- Why do we have a digestive system? - Main Components - Digestive Enzymes - Chemical and Mechanical Digestion - Digestion Activity 1 and 2 - Digestive Organs - Accessory Organs	Human Digestive System - Google Slides and PowerPoint Digestion Lesson Human Digestive System Exit Ticket and Review Activity	HS-LS1-2 HS-LS1-3 HS-LS1-6 HS-LS1-7
1	Hands-on review activity	The Human Digestive System - 7 Engaging Lab Station Activities	
1	Hands-on review activity	The Digestive System - Device-Based Scavenger Hunt Activity or Human Digestion & the Digestive System - Comprehension Article	
Assessments	There are multiple assessments included throughout this unit portion.		

Circulatory System - 6 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
3	- Blood circulations - Pulmonary circulation - Systemic circulation - Blood vessels - Red vs. blue blood - Arteries, veins, and capillaries - The blood and blood cells - The heart - Heart rate - Medical conditions - Prevention	Circulatory System - Google Slides and PowerPoint Lesson Circulatory System Exit Ticket and Review Activity	HS-LS1-2 HS-LS1-3 HS-LS1-6 HS-LS1-7
1	Review activity	Heart Disease - Digital A Science Reading Comprehension	
1	Hands-on review activity	The Circulatory System – Device-Based Scavenger Hunt Activity	
1	Hands-on review activity	Circulatory System - 7 Engaging Lab Station Activities	
Assessments	There are multiple assessments included throughout this unit portion.		

Respiratory System – 3 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
1	- What Respiration Is - The Connection Between the Respiratory and Circulatory Systems - Respiratory System Structures - Gas Exchange - Other Animals - Diseases of the Respiratory System	Respiratory System - Google Slides and PowerPoint Lesson Respiratory System Exit Ticket and Review Activity	HS-LS1-2 HS-LS1-3 HS-LS1-6 HS-LS1-7
1	Hands-on review activity	The Human Respiratory System - 7 Engaging Lab Station Activities	
1	Hands-on review activity	Smog - Its Causes and Dangers - Science Article	
Assessments	There are multiple assessments included throughout this unit portion.		

Nervous System – 4 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
1	- Neural Transmission - Potential Difference - Resting Potential, Depolarization, Action Potential, Repolarization - Membrane Channels - Sodium/Potassium Pump - Synaptic Transmission - Neurotransmitters – Types of Functions - Synapse Inhibition	The Nervous System Lesson - Signal Transmission - Google Slides & Distance	HS-LS1-2 HS-LS1-3
1	- Vertebrate Nervous System - CNS & PNS (Somatic and Autonomic) - The Spinal Cord - The Parts of the Brain - Cells of the Nervous System - Cell Division - Neuron Anatomy - Neuron Support System - Reflex Arc	The Nervous System Lesson - Anatomy - Google Slides & Distance Learning	
1	Hands-on review activity	The Nervous System - 7 Engaging Lab Stations	
1	Hands-on review activity	The Nervous System Reading Comprehension Article and/or The Nervous System Word Search and Scramble Activity	
Assessments	There are multiple assessments included throughout this unit. UNIT TEST		

The Following Resources are Included

The Digestive System Resources

- [Human Digestive System - Lesson](#)
- [Human Digestive System Exit Ticket and Review Activity](#)
- [The Human Digestive System - Lab Station Activity](#)
- [The Digestive System - Digital Scavenger Hunt Activity](#)
- [Human Digestion & the Digestive System - Reading Article](#)

The Circulatory System Resources

- [Circulatory System - Lesson](#)
- [Circulatory System Exit Ticket and Review Activity](#)
- [Heart Disease - Digital A Science Reading Comprehension](#)
- [The Circulatory System – Digital Scavenger Hunt Activity](#)
- [Circulatory System - Lab Station Activity](#)

The Respiratory System Resources

- [Respiratory System - Lesson](#)
- [Respiratory System Exit Ticket and Review Activity](#)
- [The Human Respiratory System - Lab Station Activity](#)
- [Smog - Its Causes and Dangers - Science Reading Article](#)

The Nervous System Resources

- [The Nervous System Lesson - Signal Transmission - Lesson](#)
- [The Nervous System Lesson - Anatomy - Lesson](#)
- [The Nervous System - Lab Station Activity](#)
- [The Nervous System Reading Comprehension Article](#)
- [The Nervous System Word Search and Scramble Activity](#)

Who's It For?

- **High School Biology Teachers**
- **Teachers using NGSS**
- **Teachers who want to increase their student's engagement and retention**
- **Teachers not looking to reinvent the wheel**



Save yourself the **STRESS AND TIME**



TWF

Spend your time WISELY



TWF