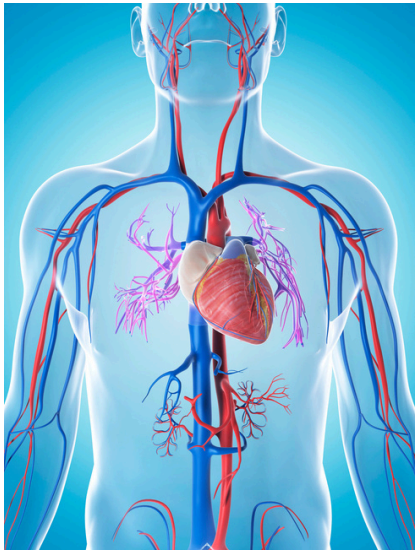


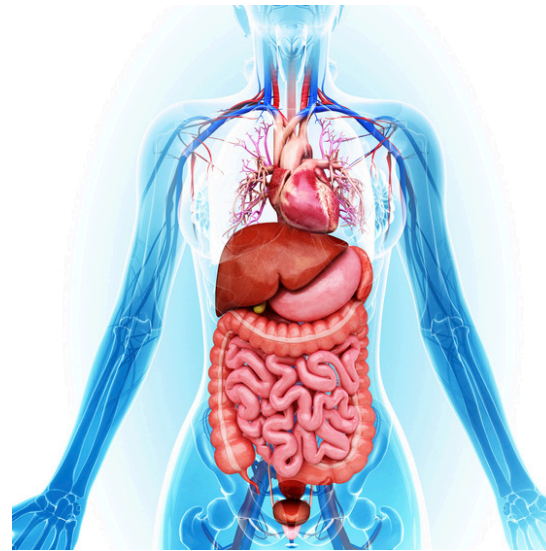
Human Body Systems Project



Circulatory



Nervous



Digestive



Respiratory

- ✓ Multimedia Research Project
- ✓ Hands-On or Digital Choice
- ✓ Real-World Connections
- ✓ Structured Timeline & Rubric

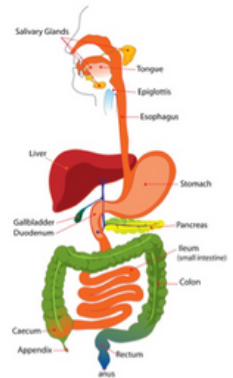


Human Body System Project

✓ **Multimedia Research Project** – Combines scientific research, model creation, and a dynamic presentation.



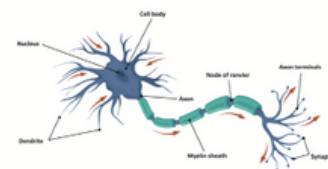
✓ **Hands-On or Digital Choice** – Students build a 3D model or create a digital animation to showcase system interactions.



✓ **Real-World Connections** – Includes medical technologies, future innovations, and lifestyle impacts.



✓ **Structured Timeline & Rubric** – Clear weekly checkpoints to guide students from research to final presentation.



Human Body System Project

Body Systems Project

Project Overview:

Students will create a multimedia presentation and either a physical model OR digital animation demonstrating how two body systems work together, emphasizing system interactions and real-world applications.

Students choose two interconnected systems from:

- Digestive + Circulatory
- Respiratory + Circulatory
- Nervous + Respiratory
- Nervous + Digestive

Required Components:

Part 1: System Research

Research & Documentation (Individual). Both **Systems Basics** and **System Interaction Analysis** research should be about 1 page in length with proper subheadings. You should use bullet points.

System Basics - For each chosen system, research the following:

- Main organs/components
- Primary functions
- Key processes
- Common disorders/diseases

System Interaction Analysis:

- How the
- What ha
- Real-wo

Part 2: Creative

1. Create a
- Using re
- Must sh
- Must inc
- Color-co

OR

Timeline and Checkpoints:

WEEK 1: RESEARCH AND PLANNING

Day 1-2:

- Introduction to project requirements and rubric
- Select body systems pairs
- Begin preliminary research
- Form groups (if applicable)

Day 3-4:

- Complete detailed research on both systems
- Document main components and functions
- Research system interactions
- Start collecting research citations

Day 5:

- Research current medical treatments
- Research future innovations
- Complete research on lifestyle impacts
- Submit research outline for review

CHECKPOINTS: All points must be checked off before proceeding to Part 2

Part 1 - Week 1:

- ☐ Research outline completed
- ☐ Systems pair selected
- ☐ Citations compiled
- ☐ Initial sketches/plans approved

2. Digital Animation - Digital video created using some kind of animation software or stop-motion that is put into a video format.

- 2-minute explanation
- Shows system interaction
- Includes labeled components
- Demonstrates flow/movement

Part 3: Presentation (5-7 minutes)

Students will create a presentation and present on:

1. Current Medical Technology
 - Explain one current treatment or technology
 - How it impacts both chosen systems
 - Real-world applications and success rates
2. Future Innovations
 - Discuss one potential future innovation
 - How it could improve treatment/prevention
 - Scientific basis for the innovation
3. Lifestyle Impacts
 - Present one significant lifestyle choice
 - Short-term and long-term effects on both systems
 - Prevention strategies and recommendations

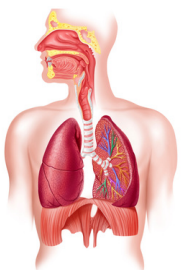
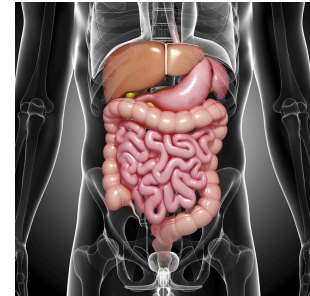
Assessment Criteria:

- Scientific Accuracy
- Creativity & Innovation
- Presentation Skills
- System Interaction Understanding

Rubric

Names: _____

Category	Level R	Level 1	Level 2	Level 3	Level 4
Research & Documentation	No work submitted or incomplete	Minimal research Information largely inaccurate Few/no citations Missing key components	Basic research completed Some information accurate Some citations included Missing some components	Thorough research Information accurate Proper citations All components present	Extensive, detailed research Highly accurate information Multiple reliable sources Exceeds expectations
Creative Component: Model/Animation	Not attempted	Incomplete/poor construction Major inaccuracies No moving parts Poor labeling	Basic construction Some accuracy Limited movement Basic labeling	Constructed well Scientifically accurate Clear movement Detailed labeling	Outstanding design Highly detailed accuracy Complex movement Comprehensive labeling
Presentation	No presentation given	Minimal understanding Cannot explain connection Major misconceptions	Basic understanding Simple connections Some misconceptions	Clear understanding Explained connection Minor misconceptions	Deep understanding Complex connections No misconceptions
System Interaction Understanding	No understanding shown	Minimal understanding Cannot explain connections Major misconceptions	Basic understanding Simple connections Some misconceptions	Clear understanding Explained connection Minor misconceptions	Deep understanding Complex connections No misconceptions



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

