

(MS)²TC Life Science 7: Human Body Systems Project

1. Choose one of the following ten human body systems to investigate:

Nervous System - brain, nerves, spinal cord

Circulatory System - heart, blood, arteries, veins, pulmonary artery, capillaries

Respiratory System - mouth, nose, trachea, lungs

Digestive System - mouth, esophagus, stomach, small intestine, large intestine

Muscular System - triceps, biceps, abdominals, quadriceps, hamstring

Skeletal System - skull, bones, ligaments, rib cage, spine, pelvis, etc.

Lymphatic System - lymph nodes, thymus, spleen, tonsils

Endocrine System - pancreas, hypothalamus, pituitary, thyroid, and the reproductive organs

Integumentary System - skin, hair, nails, and exocrine glands

Excretory System - skin, lungs, liver, kidneys, urinary bladder, urethra

2. Your investigation of the body system must include the following information:

- The primary function(s) of the body system
- The major organs of the body system and how these organs work together to perform the function of the body system
- The tissues that make up the organs and their role in the function of the organs
- The cells that make up the tissues of the body system: type, shape, function

3. Create a poster of the body system that includes an original drawing/rendering of the body system and the following components:

- All of the required information as listed above in #2
- The major organs of the body system
- A detailed diagram or drawing of a tissue of one of the organs
- A detailed diagram or drawing of a cell of one of the tissues
- Maximum poster size: 24" x 18". Print name on back of poster. Submit poster with project rubric.

4. Create a presentation of approximately 2 - 3 minutes in length. The presentation needs to include the following:

- The body system you chose and why you chose it
- The major processes the body system does
- The functions of each of the major organs (why they are each important)
- Five interesting facts about that system
- Ways we can keep the body system healthy
- Creativity - Think about how you can present your information in a creative way: infomercial, news report, using technology, etc.

5. Use class hand-outs, online book *The Human Body*, online research at home, etc. to help you do your best work on this project.

DUE DATE: _____

Name _____ Section _____

Body Systems Project Rubric

Written Information (Poster and Presentation)

_____(20) Covers topic in-depth with examples and details. Also includes required project elements. Subject knowledge is obvious and accurate.

- Identify the major organs and their functions
- List and explain the functions of the body system & explains how the body system works
- Includes detailed and original drawings of tissues and cells of body system

_____(10) Information is very organized with well-constructed paragraphs and captions.

_____(5) Typed or neatly printed for visual clarity.

_____(5) No spelling, grammatical, or punctuation errors.

_____(40) Total Points

Visuals (Poster and Presentation)

_____(5) Has required information. Informative and factual.

_____(5) Excellent use of font, color, graphics, etc. to enhance poster and presentation.

_____(5) Diagrams and illustrations are neat, accurate and add to understanding of the topic.

_____(5) Organized and neat. Large enough to read from a distance.

_____(20) Total Points

Presentation

_____(10) All required information is presented and is accurate/factual.

_____(5) Interesting, well-rehearsed with smooth delivery that holds audience attention.

_____(5) Volume, eye contact

_____(5) Visual aid is utilized and enhances the presentation.

_____(5) Time (2-3 minutes)

_____(30) Total Points

Bonus Points (at teacher discretion)

_____(10) Overall quality of project

Final Project Grade: _____ / 100