

HUMAN BODY MOVIE PROJECTS

RULE #1: MOVIE MAY NOT RUN LONGER THAN 5 ½ MINUTES!

1. You may make a movie over the Nervous System (max 2 people)

-The movie must contain the following information (narration) with pictures.

OBJECTIVES:

- Describe the basic structure and function of the nervous system.
- Describe the structure of a neuron and explain how it operates. (Diagram)
- List the parts and discuss the function of the Central Nervous System (CNS). Discuss the structure and control centers of the brain.
- Describe the Peripheral Nervous System (PNS), including the Autonomic branch (involuntary) and the Somatic branch (voluntary). In your discussion of the Autonomic system, distinguish between the Sympathetic branch and the Parasympathetic branch.
- Explain how a nerve impulse travels
- Explain what occurs during the reflex arc. (Diagram)

VOCABULARY TO USE IN THE PRESENTATION:

Central Nervous System, Peripheral Nervous System, Autonomic N.S., Sympathetic N.S., Parasympathetic N.S., ganglia, neuron, dendrite, cell body, axon, mixed nerve, sensory nerve, motor nerve, resting potential, action potential, nerve impulse, sodium-potassium pump, synapse, neurotransmitter, acetylcholine, stimulus, response, reflex, brain, cerebrum, cerebellum, medulla oblongata, spinal cord, meninges

2. You may make a movie over the IMMUNE SYSTEM! (max 2 people)

- The movie must contain the following information (narration) with pictures.



Get creative - Pick an illness- explain what happens when it enters the body - How does your immune system fight it off!!

- Be sure to use the following terms when explaining the immune system battle
 - T Cells, B Cells, Macrophages, Phagocytic cells, Antibodies, Antigens, Killer T Cells, Helper T Cells, Innate Immunity, Adaptive Immunity
 - [Watch Crash Course Immune System Part 1 & Part 2 to help](#)



3. Body System Elections

Choose 2 or 3 Systems (2-4 people depending on amount of systems)

Elements of your campaign:

- **Candidate**: Your candidate is your system. You can give them a first name and a personality! Ex: Mike Muscular (he is very buff!)
- **Campaign Slogan**: Your slogan should be short & catchy and relate to the function or organs of your system. Ex: Life is vile without bile (digestion)
- **Vice President**: Your VP will be the body system that most closely relates to your body system. You may give them a first name (Ex: Isaac Immune). Give a brief summary of how they will help you run the body if your system is elected.
- **Campaign Platform**: Your campaign platform is an outline of what you will accomplish if elected. These will be the main functions that your body system performs that are unique to your system. You need at least 3 statements for your platform. Ex: Digestion- *Tired of all that waste laying around inside your body? If elected, I promise to help you eliminate waste from the body by extracting nutrients and water and from the food and expelling undigested food out of the anus!!*
- **Cabinet Members**: Your cabinet members will be the organs within your system that will help you accomplish the promises in your platform. You will need to pick at least 5 different organs/structures within your system and state what they will be the "secretary" of (their position should relate to their function). These organs will also need to be drawn on your poster. Ex: (Endocrine): Tom Thyroid - Secretary of metabolism.



4. OVERVIEW OF ALL BODY SYSTEMS - INQUIRY PROJECT

- You will use a list of the body systems and describe what each one is responsible for in the body along with a couple of pictures of each.
 - Nervous
 - Digestive
 - Respiratory
 - Excretory
 - Endocrine
 - Circulatory
 - Immune/Lymphatic
 - Integumentary
 - Skeletal
 - Muscular