The Lymphatic System

The Lymphatic or the Immune System is responsible for the protection and the health of the body.

The Lymphatic System contains organs called lymph nodes and the spleen that helps to fight infection and bone marrow, a network of tissue inside of bone that produces red and white blood cells. Lymph nodes contain liquid tissue called lymph that is released in the body when an infection is present within the body.

Lymph nodes are like little bumps that contain liquid- (think of the candy “Gushers”)

The Spleen removes old red blood cells and makes antibodies for the body.

Vocabulary:
- a. Lymphatic System
- b. Lymph nodes
- c. Lymph
- d. Spleen
- e. Bone marrow
- f. Bone

In the above picture, circle the spleen. Circle a lymph node.

What are the organs of the Lymphatic System?
- a. 
- b. 

What is lymph? ____________________

The Lymphatic System can be compared to the __________ System because it contains lymph that can travel throughout the body to deliver fresh antibodies and also because it recycles worn red blood cells.

What candy could the Lymph nodes in the Lymphatic System be compared to? __________

Can you think of another candy that has this function?
The Skin System – The Integumentary System

The main organ of the Integumentary System is the skin. The skin covers the muscles of the body, and thus, the organs, bones, blood vessels, and the rest of the organs of all of the other body systems.

The organs of the Integumentary System are the skin, hair, nails, and sweat glands.

Skin is made up of epidermal tissues that contain sweat glands. Sweat glands capture dirt and remove them from the body through a process known as sweating. Sweating also cools the body so that the body can maintain a constant temperature.

Hair is made up of the protein keratin that is pulled through the skin. It is used to sense the environment and trap microbes that can lead to infection.

Nails are made up of the protein keratin found on fingers and toes that help to protect the body.

What is bone marrow?
________________________________________
________________________________________

What is the difference between red and white blood cells besides the color?
________________________________________
________________________________________

What is bone marrow?

<Critical Thinking>
Observe the picture above. What is it a picture of? How do you know?

What popular protein is found in hair and nails?

Which cell organelle produces protein?

The main function of the Integumentary System is _________________.
Vocabulary:
- Integumentary System
- Hair
- Skin
- Sweating
- Sweat Glands
- Nails

HW:
- Vocab
- Frankenstein Torsos

Colors:
- Lymph Nodes=Green
- Spleen=Purple
- Skin=Pink
- Hair=Black

- For the Frankenstein torso model, you are to make a construction torso and pants to “cover” the body after making the Lymphatic and Integumentary System tissue paper torso. Make sure the “shirt” has a YES logo and a pic of your face on the head. For questions, see the in-class model.