



# Human Body Systems

## Virtual Learning

# 9-12th PLTW<sup>®</sup> HBS

PLTW<sup>®</sup> 5.3.1 To Drain & Protect

May 18, 2020



# Human Body Systems

9-12th PLTW<sup>®</sup> HBS  
Lesson: May 18, 2020

## Objective/Learning Target:

Students will be able to describe the basic structure of the lymphatic and immune systems including organs, glands and tissues. (*Reference: PLTW<sup>®</sup> 5.3.1 To Drain & Protect*)



# Let's Get Started/Warm Up Activities:

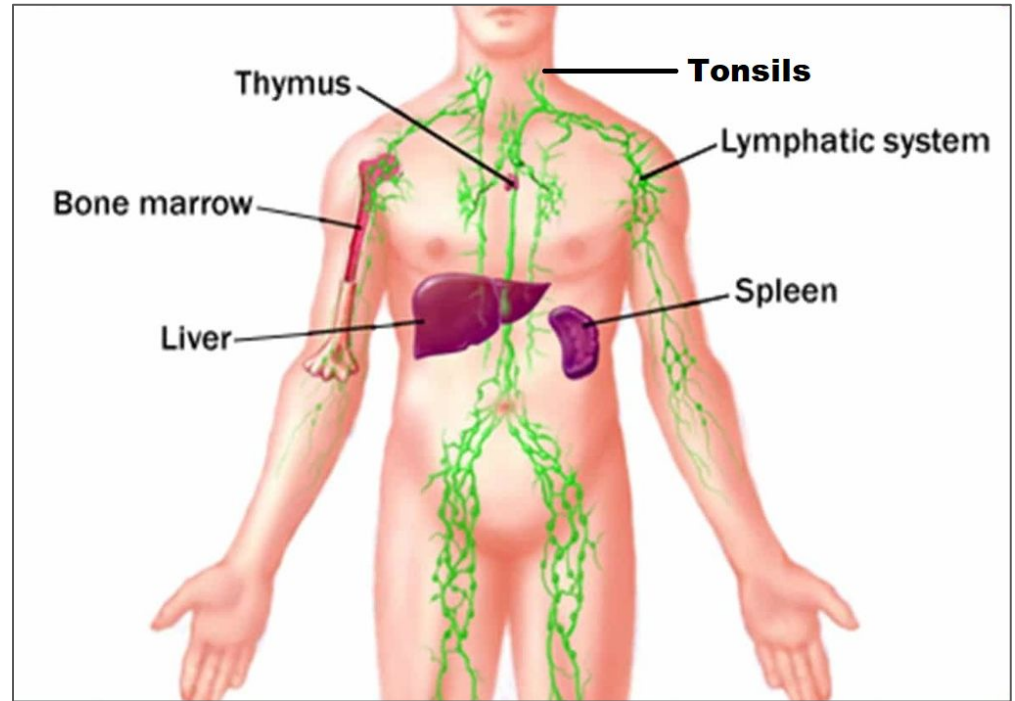
Before we start our lesson today, watch the videos below:

- [Introduction to the Lymphatic System \(Animation\)](#)
- [Overview of the Lymphatic System](#)

# Lesson/Activity:

**Activity #1:** On a piece of paper or in your notebook, draw this diagram of the lymphatic system. Feel free to use colored pencils, crayons or markers if available.

**Activity #2:** Using websites of your own choosing, write down the main function of each term on the diagram. Make sure to focus on how the organs relate to the lymphatic system.





# Lesson/Activity continued:

## **Activity #3:**

Using websites of your choosing, write the function of the following lymphatic system terms on your piece of paper or notebook:

- A. Lymphatic system
- B. Lymph
- C. Macrophages
- D. Lymphocytes
- E. Lymph nodes



# Lesson/Activity Answer(s):

## Activity #1 Answer(s):

Click [HERE](#) to view answers.

## Activity #2 Answer(s):

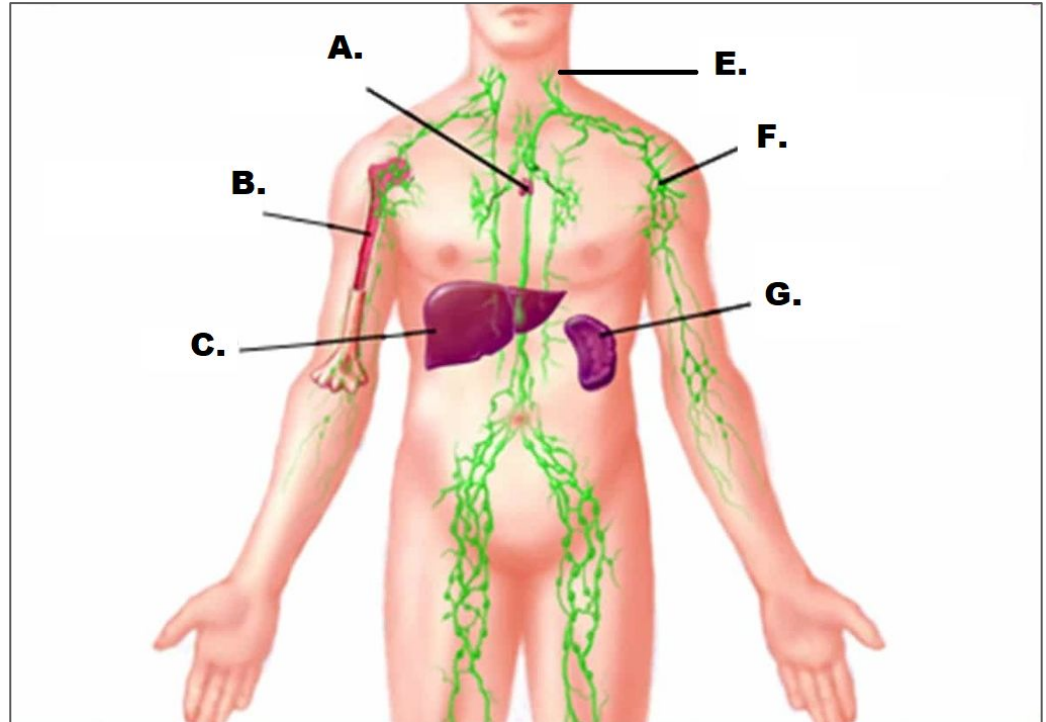
Click [HERE](#) to view answers.

## Activity #3 Answer(s):

Click [HERE](#) to view answers.

# Practice:

**Practice:** On a separate sheet of paper, and **WITHOUT** using your diagram from Activity #1, try practicing by writing down all of the anatomy terms that you can remember. Practice several times so that you remember the anatomy.





# Practice Answer(s):

## Practice:

Question(s): On a separate sheet of paper, and WITHOUT using your diagram from Activity #1, try practicing by writing down all of the anatomy terms that you can remember.

Answer(s): Click [HERE](#) to view the answer(s).





# Additional Practice and/or Resources:

Learn More:

## [HBS Lesson 5.3.1 Flashcards](#)

Test your knowledge by clicking on the link above.

## [Spleen: Anatomy & Physiology](#)

The spleen works as part of the lymphatic system to protect the body, clearing worn-out red blood cells and other foreign bodies from the bloodstream to help fight off infection. Learn more by watching this video tutorial.

## [Tonsils: Clinical Anatomy \(Palatine, Lingual, Tubal, Adenoids\)](#)

Tonsils function as a defense mechanism and help prevent your body from getting an infection. Learn more about tonsil anatomy in this tutorial.