

Name _____ Date _____

Chapter 12 Lab Investigation: Lymphatic System

Purpose

In this activity you will identify components of the lymphatic system.

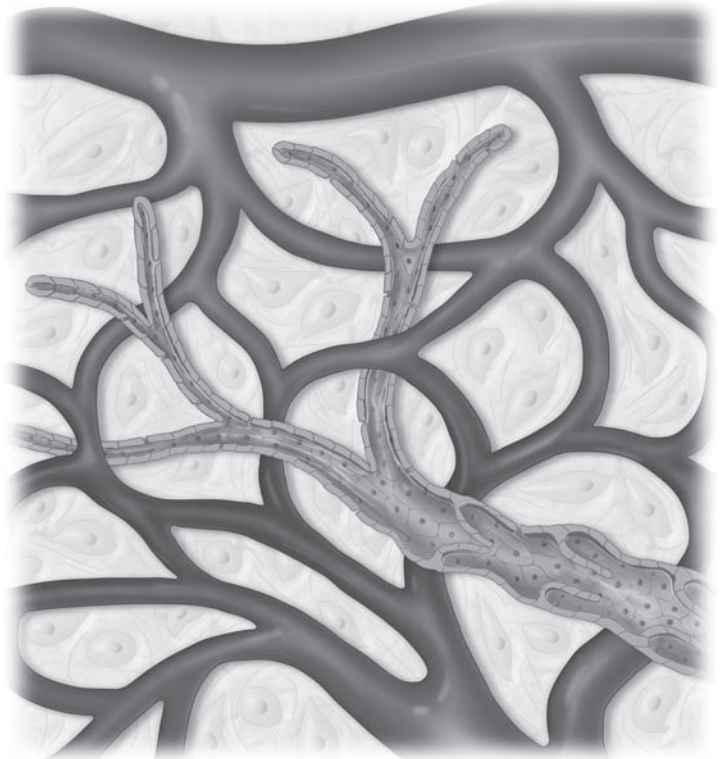
Materials

your textbook

Procedure

Lymphatic Vessels

1. In the drawing to the right, label the lymphatic vessel.
2. In the drawing to the right, use arrows to indicate the path of fluid into the lymph vessels.
3. Draw a circle around each lymphatic valve.
4. What is the function of a valve?



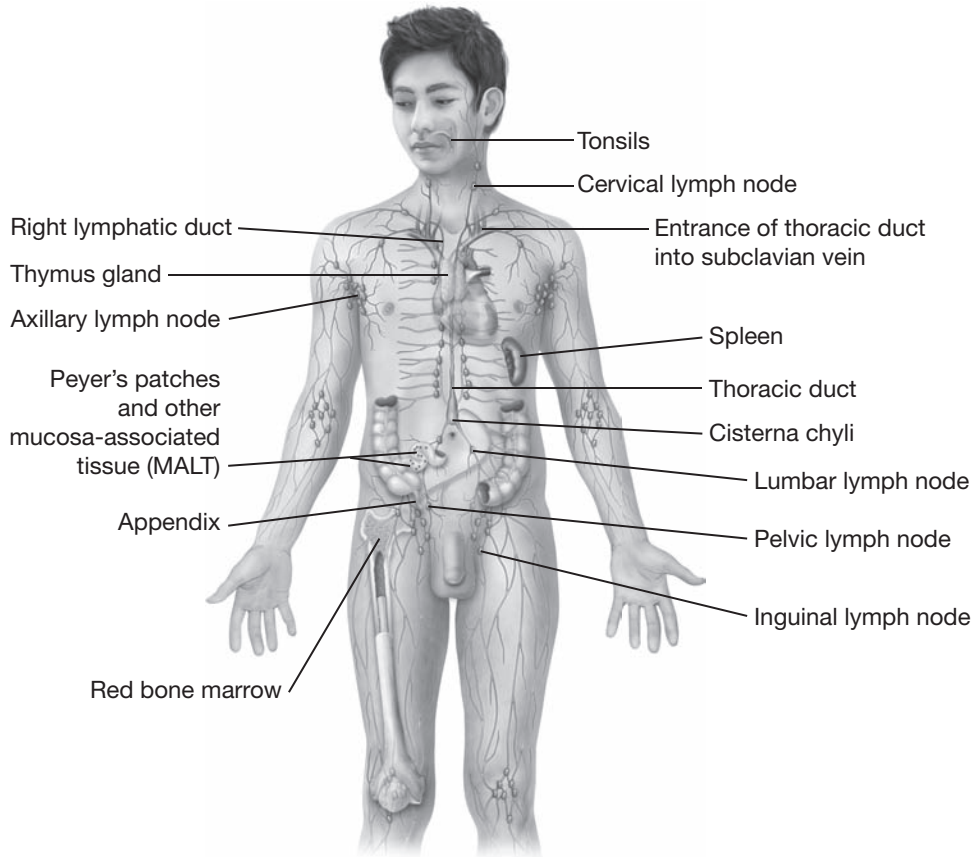
Drainage Regions

1. In the drawing to the right, the darker area is drained by the _____.
2. The lighter area is drained by the _____.



Lymphatic Organs

1. Using markers of different colors, shade the two lymphatic drainage regions on the figure below.
2. On the drawing below, use a marker to highlight the path that the lymphatic fluid travels, originating in the left knee, and flowing back to the circulatory system.
3. Count and record the number of lymph nodes that the fluid (#2 above) would pass through while returning to the circulatory system. _____



Conclusions

1. What is the name of the fluid in the lymphatic capillaries or the larger lymphatic vessels?

2. To where does the fluid in the lymphatic vessels return to? _____
3. What is the function of a lymph node? _____
4. What do the letters "MALT" stand for? _____
5. Rearrange these components in the proper order for fluid that originates in the circulatory system and then flows throughout the body: interstitial fluid, blood plasma, lymph.

List the names of the lymphatic trunks.

6. _____
7. _____
8. _____
9. _____
10. _____