

Lymphatic System & Lymph Node Presentations

This presentation is designed to give you the opportunity to better understand the lymphatic system through a deeper study and by what other students present.

Due to our class size, we will have presentations over two class periods; however, we will draw lots to see who goes when, so that everyone must be ready to present at our first class.

Items to include:

1. Figure 12.1 as a 2-D model & figure 12.4 of the lymph node as 2-D or 3-D model
2. Labeling of the parts on figure(s) or model (or key for model)
3. Discussion Presentation –
Describe the lymphatic system while referring to your 2-D model
See score sheet for specifics
4. Anatomical and Function Presentation –
Description of the parts and their function in the lymph node while referring to your 2-D or 3-D model

You may draw the 2 figures as a 2-D model, have 12.1 be 2-D and make a 3-D model of the lymph node, or prepare a unique presentation to present the listed items. For 2-D models, you may choose to use the figures and enlarge them rather than sketch them; however, remove the labeling and do the labeling yourself (by hand or labeler). Have your diagrams mounted onto a board that is at minimum the size of $\frac{1}{2}$ of a poster board. This should give you an idea of the size needed of the figures. You can mount onto any material of your choosing. A 3-D model needs to be large enough to get the proper detail. Labeling can be done directly on the model or use a separate sheet or board and create a key for the parts that are listed on the score sheet.

The models are needed to aid in your presentation; they are not the focus. What is important is to know the parts of the system and be able to talk about the function and interaction of these parts.

The material you need should be in the text, however, it may be necessary to pull from outside sources or you may choose to go in more detail. If you do use additional sources, please write your sources on a separate sheet and turn it in when you present.

The depth you go and the details of your presentation are dependent on you.

The presentation should be a minimum of 10 and preferred to be 15 minutes. Make sure to address every part listed on the score sheet and cover their basic function. If you choose to do more, then it will count for extra points.

Don't miss this opportunity to increase your knowledge and more importantly your amazement of God and His design of your body!

Student Name: _____

Date: _____

Anatomy & Physiology Science Project
Lymphatic System (2-D) and Lymph Node (2-D or 3-D) Presentation

1. Visual aid(s) appropriate and creative _____
 2. Information presented in a clear and organized manner _____
 3. Presentation time 10 – 15 min. **Time:** _____ _____
 4. Presentation demonstrates knowledge of topic _____
 5. For additional sources, sheet turned in listing them – **Extra:** Yes? ___ No? ___
- Subtotal of points out of possible 30** _____
-

Estimated time spent on project: _____

1. Information is scientifically accurate _____
2. All parts labeled on model or a supplemental board or key _____
3. **Discussion presentation:**
4. **Anatomical & Function presentation:**

Following overview of **Figure 12.1:**
(Point out areas on your 2-D model as they are discussed.)

- ___ **A.** Lymphatic System
- ___ **B.** Lymph
- ___ **C.** Lymph vessels
- ___ **D.** Functions of lymphatic system:
 - ___ • Fluid balance
 - ___ • Absorption of fats from digestive system
 - ___ • Immunological defense
- ___ **E.** Detail difference of:
 - ___ • Diffuse lymphatic tissue
 - ___ • Lymph nodules –
 - ___ Detail tonsils **and** Peyer's patches
 - ___ • Lymph nodes

Following parts included and
functions detailed:

- Lymph Node - Figure 12.4**
- ___ **A.** Afferent lymph vessel
 - ___ **B.** Diffuse lymphatic tissue
 - ___ **C.** Reticular fibers
 - ___ **D.** Efferent lymph vessel
 - ___ **E.** One-way valve
 - ___ **F.** Blood vessels
 - ___ **G.** Trabeculae
 - ___ **H.** Capsule
 - ___ **I.** Macrophage
 - ___ **J.** Lymph nodule
 - ___ **K.** Germinal center

Subtotal out of possible 70 points _____

Teacher comments:

Grade Total

