

Organization of the Plant Kingdom

Name _____

Directions: Using the following websites, gather information about the major groups of plants. Answer the questions using complete sentences. All answers must be in your own words!!!

Go to http://arnica.csustan.edu/boty1050/Vascular/vascular_plants.htm

1. What are the two major types of true plants?

- **Vascular vs. non-vascular**

2. What are the main differences between them? (list only #'s 1 & 3)

- **Vascular plants have vascular tissue & are larger in general.**
- **Non-vascular plants do not have vascular tissue & are smaller in general.**

Go to <http://www.harcourtschool.com/activity/vascular/vascular.html>

3. Where are the two networks of tubes in vascular plants located?

4. What do the tubes transport?

5. Where do water and nutrients enter the plant?

6. How do water and nutrients get to the stems?

7. Where do the water and nutrients go from there?

8. What is transpiration?

9. What do food tubes do?

Go to http://www.biology4kids.com/files/plants_xylemphloem.html

10. These food and water tubes are the “transportation” system in plants. What are they called?

11. Trees and vascular plants have a top and bottom. What does the top and bottom consist of and what are their functions?

12. Draw a diagram showing the movement of water, nutrients and sugar in a plant.

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Go to http://www.biology4kids.com/files/plants_main.html

Click on Mosses and Liverworts

13. Which of the two main plant groups do they belong to?

14. How big are mosses and liverworts? Why?

15. Because mosses and liverworts have no vascular system they thrive in what type of environments?

Click on Ferns & Horsetails

16. What is meant by the title, 'First Plants with Pipes?'

17. Do ferns and horsetails reproduce with seeds?

Click on Gymnosperms

18. What is so special about this group of vascular plants?

19. What are two advantages of seeds?

20. Give 3 examples of gymnosperms and where they are found.

21. What is the evolutionary advancement after seeds that gymnosperms do not have?

Click on Angiosperms

22. Why are flowers an advantageous adaptation?