

Name _____

AP Biology

Chapter 29 - Plant Diversity I: How Plants Colonized Land

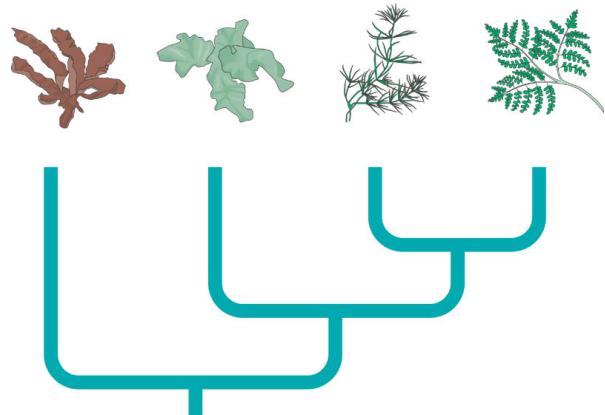
Guided Reading Assignment Campbell's 10th Edition

Essential Knowledge

None

1. List and describe the three traits that land plants share with charophyceans.
2. What resource did plants need to find a way to conserve to move to land?
3. What are the five derived traits that appear in nearly all land plants but are absent in the charophyceans?
4. What is a cuticle?
5. What are secondary compounds and how are they an advantage to plants? Give some examples.

6. Use the diagram to view plant evolution in broad terms.
7. What general characteristics could you infer about plants that lack vascular tissue?



8. What is the alternative to having a seed?
9. What is the dominant life cycle of a bryophyte?
10. What was the dominant life cycle in Seedless Vascular Plants?
11. Define the following terms:
 - a. Xylem
 - b. Tracheids
 - c. Lignin
 - d. Phloem
 - e. Roots
 - f. Leaves
12. How does the life cycle of a moss compare to that of a fern?
13. What effect did the development of the first forests have on carbon dioxide in the atmosphere?