

Outcome Practice – Evolution of Kingdom Plantae

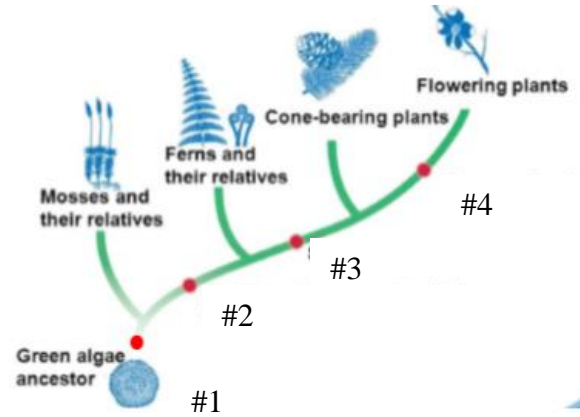
(Outcome 16)

Name:

Biology 11

Directions: Complete the questions below using the tutorial video, and textbook pages provided or if using the textbook itself pages between 554 and 615.

1. Using the cladogram to the right, indicate the 4 derived characteristics found at each of the numbered dots that occurred as kingdom plantae evolved. Indicate why each derived (evolutionary) change was important to the development of plants. (Use the tutorial and textbook pgs. 553 and 554)



- 1.
- 2.
- 3.
- 4.

2. Complete the chart looking at each phylum found in Kingdom Plantae.

	Bryophytes Pgs. 556 & 557	Pterophyta Pgs. 562 & 563	Coniferophyta Pgs 566 & 567, 610 & 611	Anthrophyta Pg 615
Are these plants required to be close to water? (yes or no)				
How do they reproduce? (sperm and egg or pollination)				
Other characteristics				
3 examples of:				

3. What are the three features that allow seed plants to reproduce without water? (564)
- -
 -
4. What is pollination? (pg. 565)
5. How does pollination occur in Coniferophyta plants? (pg. 610 & 611)
6. Explain how pollination occurs in Anthrophyta. (pg. 615)
7. Why are Anthrophyta the most dominant plant species on Earth? Think about how they have developed on an evolutionary scale to allow for this.