

Plant Kingdom Study Guide

- 1. Land plants evolved from a green alga ancestor
 - 2. Green Eukaryotes (Chlorophytes and Charophytes) are related with green algae
 - 3. Similar photosynthetic pigments
 - 4. Similar cell wall components (cellulose)
 - 5. Store photosynthate as starch
 - 3. Among the green algae, Charophytes share evolutionary relationships
 - 4. Chara and Equisetum (horsetails) are closest relatives
 - 5. Evolutionary studies indicate Charophytes (terrestrial) shed chloroplasts into the water which will eat
 - 6. Sporangophytes and other (terrestrial) green algae share a land plant ancestor
 - 7. Charophytes maintain evolutionary relationship surrounding their ancestor
 - 8. In land plants, common ancestor had sporangium containing sporophyte
 - 2. Charophytes & green eukaryotes green algae that include charophytes (terrestrial) and others
 - 3. Land plants are different because they have evolved land adapted differences from algae
 - 4. Phloem tissue is the characteristic of land plants to transport the sugar which food
 - 5. Arabinose, a sugar that is not found in charophytes, is found in land plants
 - 6. Arabinose is found in charophytes but not in charophytes
 - 7. Land plants have a waxy cuticle to prevent water loss
 - 5. Land plants have a waxy cuticle to prevent water loss
 - 6. Waxy cuticle is found in land plants
 - 7. Waxy cuticle is found in land plants

How did the green algae evolve?



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Study Guide For Domain And Kingdom

Sylvia S. Mader



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