

## Plants Reading Guide

Name:

20-4

1. Describe phylum Chlorophyta.
2. Explain and give examples of unicellular, colonial and multicellular green algae.

22-1

1. What is a plant?
2. Describe the basic plant life cycle.
3. What do plants need to survive?
4. What problems did plants face on land?
5. What are the 5 requirements of life on land for a plant?
6. What are the four groups of plants?

22-2

1. What does it mean to be nonvascular?
2. Why can bryophytes only thrive in wet areas?
3. Describe the life cycle of a bryophyte.
4. What is an antheridium? Archegonium?
5. What is a protonema?
6. What are some examples of bryophytes?

22-3

1. What is vascular tissue?
2. What does xylem transport?
3. What does phloem transport?
4. How can vascular plants grow upright?
5. What are rhizomes?
6. What is a frond?
7. How are spores, sporangia and sori related?
8. Describe the life cycle of a fern.
9. What generation is dominant?
10. What substance is needed for ferns to reproduce sexually?

22-4

1. What is the difference between a gymnosperm and an angiosperm?
2. What allowed plants to reproduce without the help of water?
3. What are the seed-bearing structures of gymnosperms and angiosperms?
4. What does gymnosperm mean?
5. What is pollen?
6. What is it called when pollen is transferred to the female reproductive structure?
7. Describe a seed.
8. Describe conifers.
9. How did seed plants evolve?

22-5

1. What do angiosperms use for reproduction?
2. What does angiosperm mean?
3. What advantage do flowering plants have over other plants?
4. What does the ovary develop into?
5. What is fruit used for?
6. What is the difference between monocots and dicots?
7. What is a cotyledon?

24-1

1. Compare the gametophyte generation of seed plants to mosses and ferns.
2. Where does reproduction take place in a gymnosperm?
3. What are pollen and seed cones?
4. What is an ovule?
5. What does a pollen tube do?
6. Draw and describe the life cycle of a typical gymnosperm.
7. Draw and label the structures of a flower.
8. Explain the functions of each part of a flower.
9. Draw and describe the life cycle of a typical angiosperm.