

## Seedless Vascular Plants

### Review Questions:

1. What are the two clades of vascular plants without seeds? (page 578 of the textbook)
2. Name the two kinds of vascular tissue in the vascular plants (page 584 of the textbook).
3. Contrast at least three differences between bryophytes and the vascular plants. (page 578 and pages 584 to 586 of the textbook)
4. Which stage of alternation of generations dominates for the seedless vascular plants? (page 584 of the textbook)
5. Name the two phyla of seedless vascular plants. (page 587 of the textbook)
6. Describe the features of a club moss. (page 586 and 587 of the textbook)
7. Diagram the life cycle of a club moss (*Lycopodium*).
8. Diagram the life cycle of a spike moss (*Selaginella*).
9. Describe the features of a whisk fern. (Page 587 of the textbook)
10. Diagram the life cycle of a whisk fern.
11. Describe the features of *Equisetum*. (Page 587 of the textbook)
12. What is a frond? What is a pinna? What are fiddleheads?
13. What is a sorus?
14. Diagram the life cycle of a fern. (Figure 29.12 on page 585 of the textbook)

### KEY TERMS

|                            |             |                |
|----------------------------|-------------|----------------|
| Alternation of generations | Megaphylls  | Root           |
| Antheridium                | Megaspore   | Sporangium     |
| Archegonium                | Microphylls | Spore          |
| Blade                      | Microspore  | Sporocytes     |
| Fiddlehead                 | Node        | Sporophyte     |
| Frond                      | Phloem      | Sorus          |
| Gametophyte                | Pinna       | Stipe          |
| Heterosporous              | Prothallus  | Strobilus      |
| Homosporous                | Pterophyte  | Vascular plant |
| Indusium                   | Rachis      | Xylem          |
| Lycophyte                  | Rhizoid     | Zygote         |
|                            | Rhizome     |                |

Concept Check 29.4 page 588 of textbook

Questions 5, 6, 7, 8, 9, and 10 page 590 of textbook