

Name _____

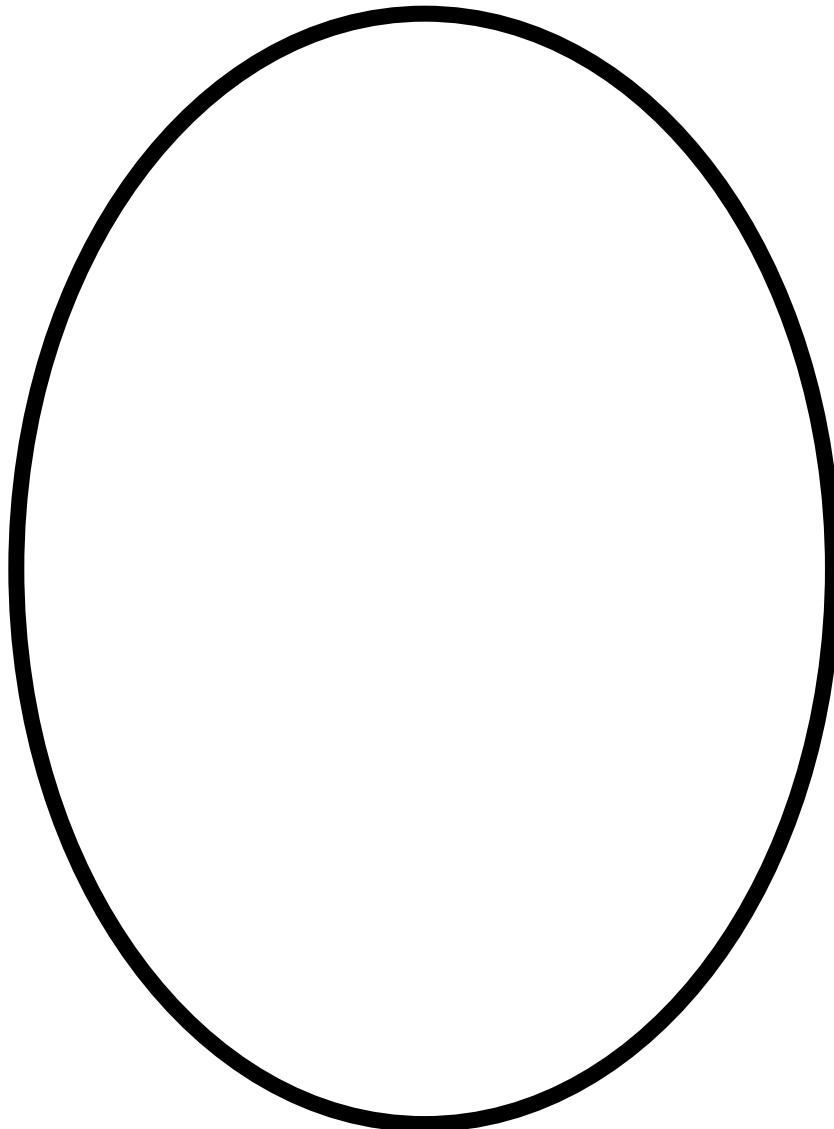
Period _____

AP Biology

Date _____

REVIEW: PLANT EVOLUTION & PLANT LIFE CYCLES

1. Use the following framework to draw the generalized “alternation of generation” of the plant lifecycle. Label each stage (sporophyte, gametophyte, spores, gametes, zygote), the genetic state of each stage, the process the plant cells underwent to get there.



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2. Draw the cladogram that illustrates the evolutionary history of plants. Include the four major groups of land plants, the two major subgroups of flowering plants, summarize their key characteristics, and list on the tree the derived characteristics that connects each group in the clade.

3. To prepare yourself for discussing this unit, for each of the four major groups of land plants, fill in each of these categories with the proper information. Be brief and to the point!

a. **Bryophytes**

Vascular system? _____

Dominant stage (sporophyte or gametophyte?): _____

Describe the sporophyte (what does it look like?; where is it?): _____

Describe the gametophyte (what does it look like?; where is it?): _____

Mode of reproduction: _____

b. **Pteridophytes**

Vascular system? _____

Dominant stage (sporophyte or gametophyte?): _____

Describe the sporophyte (what does it look like?; where is it?): _____

Describe the gametophyte (what does it look like?; where is it?): _____

Mode of reproduction: _____

c. **Gymnosperm**

Vascular system? _____

Dominant stage (sporophyte or gametophyte?): _____

Describe the sporophyte (what does it look like?; where is it?): _____

Describe the gametophyte (what does it look like?; where is it?): _____

Mode of reproduction: _____

d. **Angiosperm**

Vascular system? _____

Dominant stage (sporophyte or gametophyte?): _____

Describe the sporophyte (what does it look like?; where is it?): _____

Describe the gametophyte (what does it look like?; where is it?): _____

Mode of reproduction: _____
