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## **AP Biology**

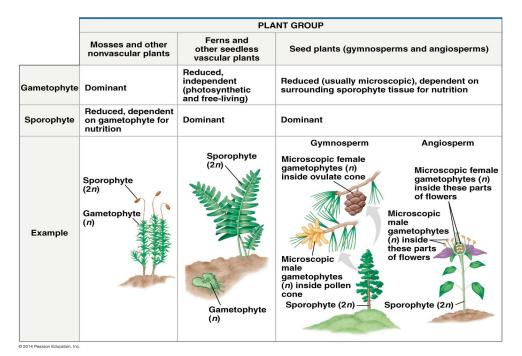
## Chapter 30 - Plant Diversity II: The Evolution of Seed Plants

## Guided Reading Assignment Campbell's 10<sup>th</sup> Edition

## **Essential Knowledge**

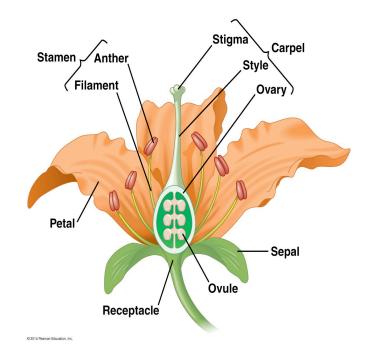
None

- 1. What are some of the advantages to having a reduced gametophyte in plants?
- 2. Use the diagram below to compare the chromosome number of the four main plant groups.



- 3. What are the evolutionary advantages to seed formation?
- 4. What does the term Gymnosperm mean?

- 5. What is the common name of Angiosperms?
- 6. Describe the function the following structures:
  - a. Flower
  - b. Sepals
  - c. Petals
  - d. Stamen
  - e. Filament
  - f. Anther
  - g. Stigma
  - h. Style
  - i. Ovary
  - i. Pistil
  - k. Fruit



- 7. Describe the process of double fertilization
- 8. What is a cotyledon?
- 9. What function does the endosperm serve?
- 10. Why do we now know that monocot and dicot classification of angiosperms does not completely reflect the evolution of these plants? What is the newer classification system?
- 11. Label the monocots and dicots in the diagram

