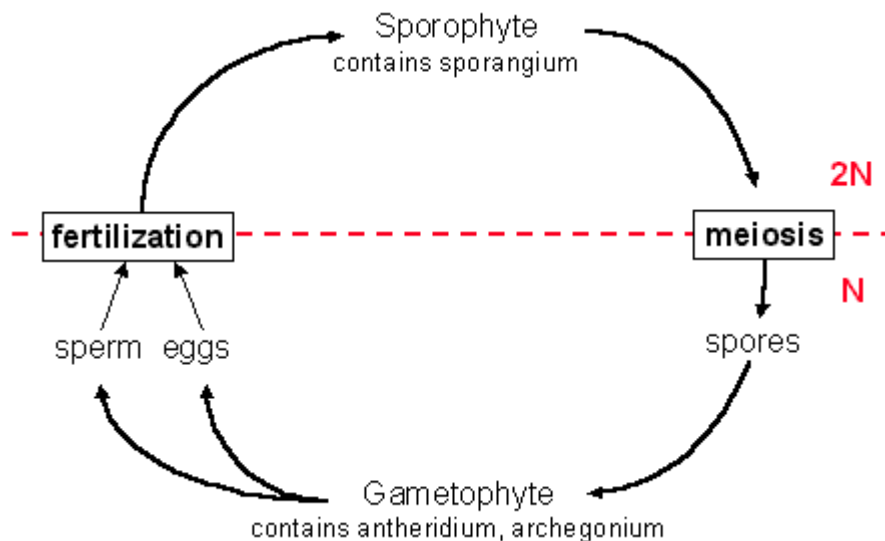


## Botany Unit 2 Study Guide

- Study your quiz. Be sure you can label the parts of a flower and tell me what their function is.
- Understand the alternation of generations, including the following key terms:
  - Sporophyte
  - Gametophyte
  - Haploid
  - Diploid
- Most of a plant's life is spent as a \_\_\_\_\_ (full set of chromosomes)
- One entire stage, or generation, of a plant's life is spent with as a \_\_\_\_\_ (single set of chromosomes)
- Be able to label the following alternation of generations chart:
- 



- When we look at plant, we are almost certainly looking at a \_\_\_\_\_.
- The five major stages of meiosis/mitosis (in order) are: interphase, prophase, metaphase, anaphase, and telophase.
  - \_\_\_\_\_ is the actual division of a cell membrane or cell wall.
- Key difference between mitosis and meiosis is that \_\_\_\_\_ involves a single cell division, resulting in 2 diploid cells. \_\_\_\_\_ involves 2 cells divisions, resulting in 4 haploid cells.
- \_\_\_\_\_ are regions of undifferentiated cells where growth can take place.
- Define micropropagation
- Be familiar with the definitions on your word search and especially the definitions from your crossword puzzle.
- The proper terminology describing the ability of plants to grow new individuals from fragments of the parent plant is \_\_\_\_\_.
- A process where pollen is transferred to the stigma of the flower is \_\_\_\_\_.
- What structure is the result of the fusion of 2 haploid gametes? \_\_\_\_\_