

Plant Reproduction and Development_Assessment2_SLFAB2

Answer the following questions.

1. Differentiate the following: complete vs. incomplete flowers; perfect vs. imperfect flowers
2. How many sperm nuclei are present in one pollen grain?
3. How many pollen grains are produced by 1000 microsporocytes?
4. How many egg cells are produced by 1000 megasporocytes?
5. How many polar nuclei are present in 1500 megasporocytes?
6. What is self-incompatibility?
7. Describe the events in double fertilization.

Enrich Your Learning

1. Watch a video on flower pollination and plant development.
2. Dramatize the role of wind and seed dispersal.
3. Do the following research:
 - a. How bees make a honeycomb?
 - b. How seedless fruits (parthenocarpy) are produced?
 - c. Why pollens cause allergies?
4. Do a morphological dissection using a dissecting kit on flowers. Dissect a grass flower and a pea flower. Locate the reproductive and nonreproductive parts. A dissecting or binocular microscope may be used.