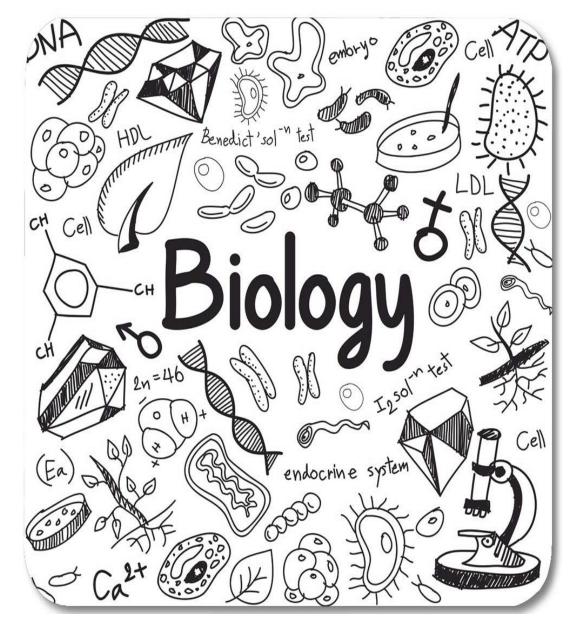


Lesson: Fertilization

Scholastic Year: 2022-2023

Grade: 8 CS

















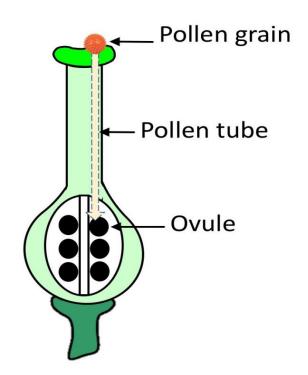


Objective: Understand how fertilization takes place

Resources: book page 166 – 167 /workbook Page 72

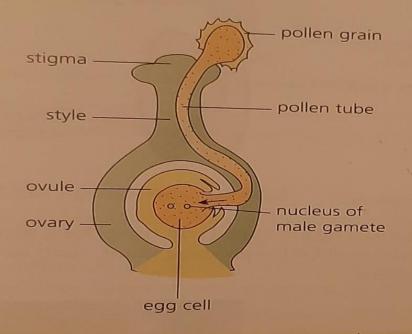
## Plant Fertilization:

The process of fusion of the female gamete, the ovum or egg and the male gamete produced in the pollen tube by the pollen grain.



#### Fertilisation

A pollen grain begins to grow when it lands on a stigma. It sends a pollen tube down through the style to an ovule. The male gamete's nucleus moves down through this tube, enters an egg cell, and fuses with the egg cell nucleus. This is fertilisation.





Grass flowers rely on the wind to carry pollen from flower to flower.

gametes: specialised cells which serve the function of reproduction. female.

Zygote: Single cell structure formed from the fusion of male and female gametes.

 A pollen tube grows down through the style. to carry the nucleus of the male gamete to zygate derkor embryon the egg cell.

male

The fertilised egg grows into an embryo, and the ovule produces a seed to protect it. As the seed develops, the ovary forms a fruit around it. If the ovary wall becomes very hard, the fruit is called a nut.

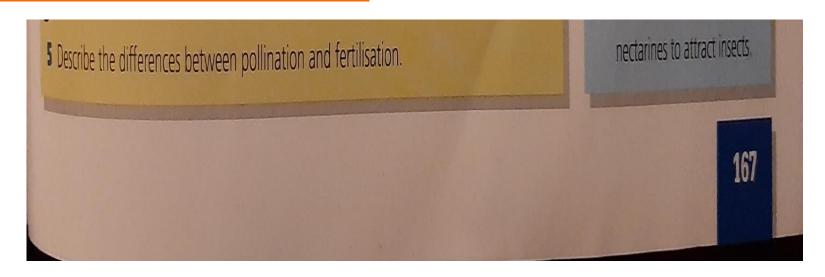


After fertilisation, seeds form and a fruit develops.

- The male parts of flowers are stamens.
- Each stamen has pollenproducing anther on a stalk called a filament.
- The female part of a flower

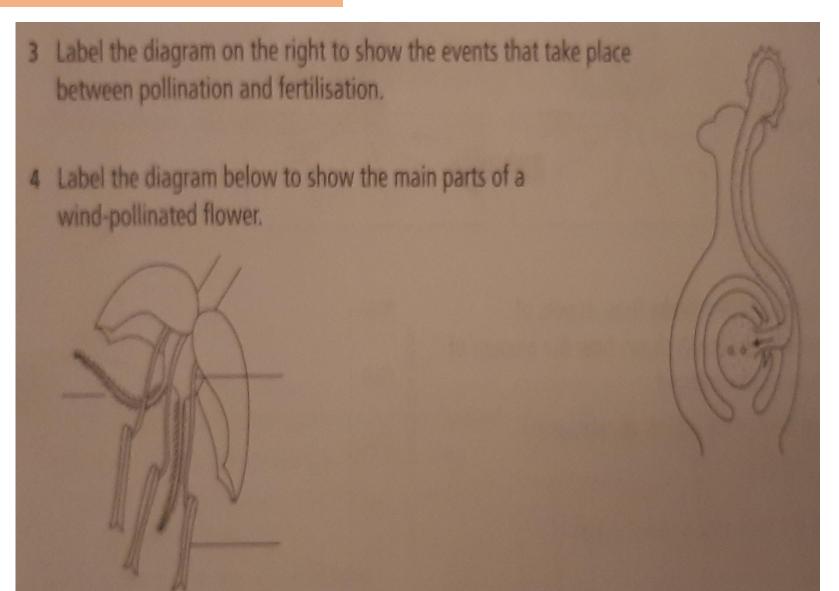


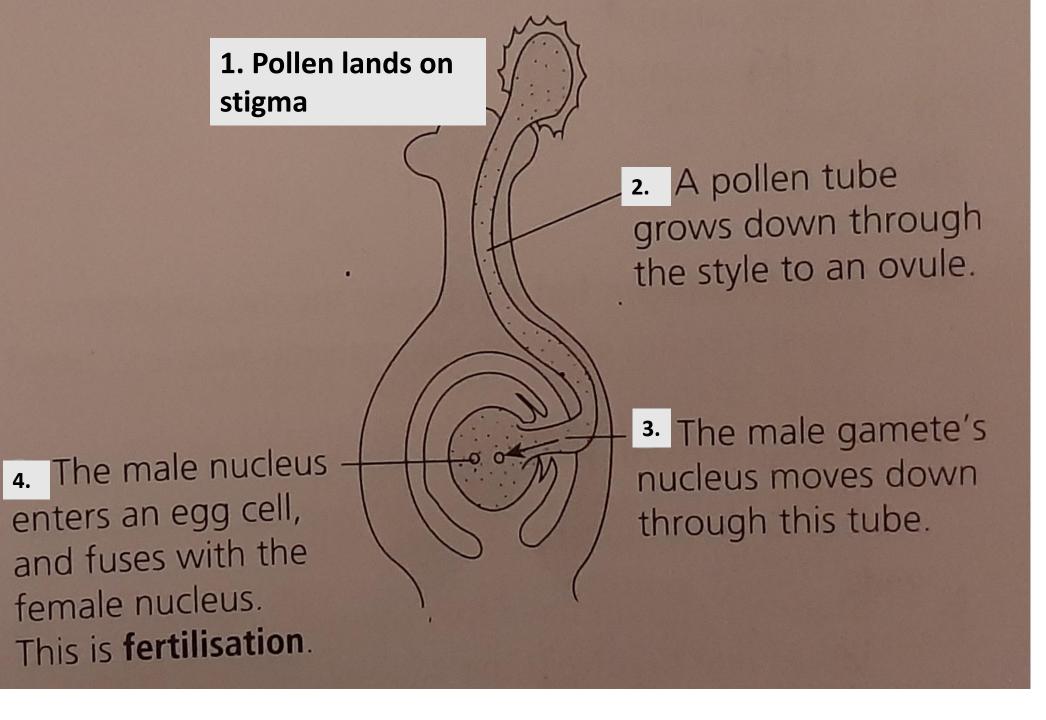
# Text book page 167 Question 5:



Q5. <u>Pollination</u> occurs when pollens move from the anther to the stigma and land on the stigma. <u>Fertilization</u> occurs (after a pollen tube grows down to the ovule) when the nucleus of the male gamete fuses with the egg cell nucleus.

## Workbook page 72





### Question 7 / page 170

- a. The concentration of the sugar solution the pollen was placed in.
- b. (8/10) X 100% = 80%
- c. Repeat the test.

