

FERTILIZATION

Subject

Basic Science

Prepared By

[Instructor Name]

Grade Level

4

Overview

This lesson plan covers teaching content for;

1. Differences between fertilization and pollination

Objectives

Students should be able to;

1. Define fertilization
2. List the part of a flower that involves in fertilization
3. Differentiate between pollination and fertilization

Activity Starter/Instruction

- 1 Ask the students what they understand by the word fertilization.
- 2 Explain to the students that fertilization takes place after pollination.
- 3 Explain to them that fertilization is the joining together of the male part of the pollen to the female ovules in the ovary.
- 4 Ask to differentiate between pollination and fertilization by filling the table below. Draw the table without the answers

Pollination	Fertilization
It takes place on the stigma	It takes place in the ovary
It involves pollen and stigma	It involves pollen and ovules
The pollen is transported to the stigma	The pollen is transported to the ovary
Pollination is followed by fertilization	Fertilization is followed by making seeds and fruits

Teacher Guide

Day 1/ Lesson 1: 15 Mins

1. Divide the class into groups
2. Display pictures with a diagram showing a chart flow of reproduction.
3. Ask students what will happen if fertilization does not take place.
4. Draw the parts of a flower involved in fertilization.
5. Explain to students the function of each part and also telling them where fertilization takes place.

Guided Practice

Day 3/ Lesson 3: 15 Mins

1. Display a flower and a fruit in front of the class
2. Divide the fruit into two.
3. Bring out the seed of the fruit
4. Ask the students to write how the seeds were produced from a flower.
5. Ask them to draw and label a flower on their own

Materials Required

- Box
- Pieces of paper
- Pen
- Pictures
- Fruit
- Flower

Additional Resources

- <https://www.teacherspayteachers.com/Product/germination-powerpoint-3209571>
- <https://www.towergarden.com/content/darplans/grades-5-and-up-plant-fertilization.pdf>
- <https://www.sciencelearn.org.nz/resources/>
- <https://www.clarendonlearning.org/subject/>

Additional Notes

Guided Practice

Day 2/ Lesson 2: 15 Mins

1. Have students divided into three groups
 2. Write questions on pollination and fertilization on different pieces of paper.
 3. Put them in a box
 4. Ask them to pick a number based on the amount of questions in the box.
 5. Make sure the questions cover from parts of a flower, pollination down to fertilization.
 6. The group with the highest amount of correct answers should be classified the winner.
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Assessment Activity

Assess if pupils can:

1. Define fertilization.
 2. Differentiate between pollination and fertilization.
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Summary

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Assessment Activity

Assess if pupils can:

1. Know the parts of a flower involved in fertilization.
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