

### Student learning outcome (SLO):

<ul style="list-style-type: none"> <li>• Define reproduction and its types</li> <li>• Identify different parts of a flower.</li> <li>• Analyze different stages of sexual reproduction.</li> </ul>	<ul style="list-style-type: none"> <li>• Compare and contrast types of pollination.</li> <li>• Describe asexual reproduction.</li> <li>• Explain different stages of vegetative propagation.</li> </ul>
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### Overview:

The main purpose of this lesson is to ensure the students to learn about how organisms produce offspring that are similar to them, and how a seed disperse by different methods and develops into a plants by the process of germination.



### Introduction:

Lead the students in learning about,

**‘Reproduction in plants’.**

**‘Pollination and its types ’**

Video of the lecture can be shown to the students as well.

<a href="https://youtu.be/ZUAL7hHdOXI?si=Syc2as8XS80O5cAT">https://youtu.be/ZUAL7hHdOXI?si=Syc2as8XS80O5cAT</a>	
<a href="https://youtu.be/W-daJxfe4As?si=D-5yT1Tt0Ke8EgMQ">https://youtu.be/W-daJxfe4As?si=D-5yT1Tt0Ke8EgMQ</a>	

### Keywords:

Reproduction, offspring, pollination, germination, vegetative propagation, cutting, grafting, sexual, asexual

### Material:

- Seeds (beans or peas work well)
- Small pots or containers
- Potting soil
- Water
- Plastic wrap or clear plastic bags

### Activity:

- i. Provide each student with a small pot and some potting soil.
- ii. Instruct them to plant a few seeds in each pot, following proper planting depth guidelines.
- iii. Water the pots adequately, and cover them with plastic wrap or place them in clear plastic bags to create a mini greenhouse effect.
- iv. Place the pots in a sunny location or under a grow light.
- v. Over the next week, have students observe and document changes in their pots, emphasizing the growth of seedlings.

### Essential questions:

Before starting the lesson, ask some questions to explore the background knowledge of students:

1. How living organisms produce similar organisms?
2. What are gametes?
3. Which part of the flower is responsible for reproduction?
4. How a small seed develop into a plant?
5. What is the role of water and light in seed germination?
6. How seeds disperse?
7. Name the different parts of a flower.