

Class: - 8
Subject: - Biology.

Date: - 19th to 21st Feb 2024

Topic / Sub Topic	E	N
	<u>Energize Learners</u>	<u>Navigate Content</u>
No. of Periods	<ul style="list-style-type: none"> • Before starting the class • To start the class. 	<ul style="list-style-type: none"> • Teach & Review

03
(Mon. to Fri)

Topic: -

Sexual Reproduction in Flowering plants

Sub Topic: -

- Parts of flower
- Unisexual and Bisexual flowers
- Pollination
- Types of pollination.

Learning Outcomes

• Each child will be able to define term reproduction and describe the key reproductive structure of flowers.

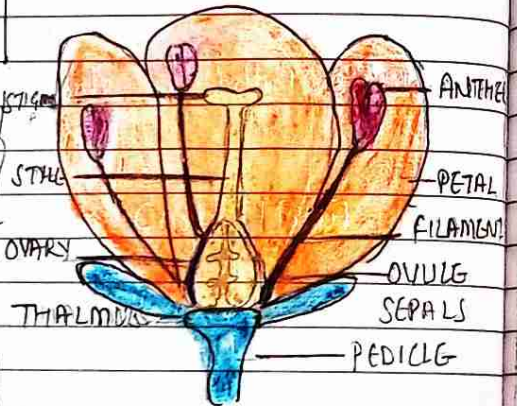
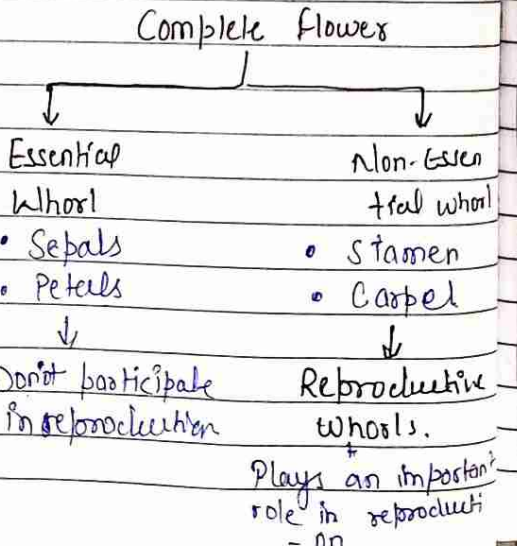


Fig: U.S. of flower



G	A	G	E
<u>Generate Meaning</u>	<u>Apply to Real life</u>	<u>Change the Meaning</u>	<u>Extend</u>
<ul style="list-style-type: none"> • Move to long term memory through reflection 	<ul style="list-style-type: none"> • Demonstration skill 	<ul style="list-style-type: none"> • Look how much you have learnt 	<ul style="list-style-type: none"> • Extended Activities.
<u>Points to remember</u>	<ul style="list-style-type: none"> • Students will draw the diagram of parts of flower and label its various parts. 	<ul style="list-style-type: none"> • Identity the various parts of given flowers. 	<ul style="list-style-type: none"> • Do back exercise question answers.
<ul style="list-style-type: none"> • Flowers are the reproductive parts of angiosperms • Stamen is the male reproductive organ consisting of anther and filaments. • Pistil / Carpel is the female reproductive organ consisting of stigma style and ovary. • Some flowers contain both the sex organs 	<ul style="list-style-type: none"> • Students will explain the essential and non essential whorls of flowers. 	<ul style="list-style-type: none"> • Create a concept map that visually organize key concept related to sexual reproduction in flowers 	

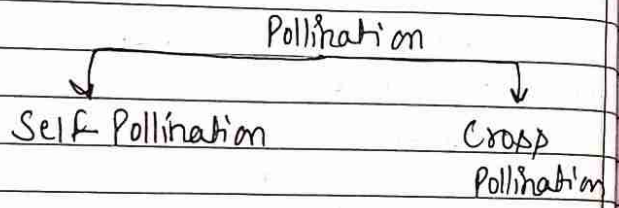
Topic/ Sub Topic No. of Periods	E	N
	Energize learner's	Navigable Content
	<ul style="list-style-type: none"> Each child will be able to identify & label the main reproductive st of flower Each child will be able to answer the question. <ul style="list-style-type: none"> Why petals are brightly coloured? What is the role of sepal in flower? What is pollination? 	<p>I) Male reproductive floral organ: (Stamen)</p> <ul style="list-style-type: none"> Anther Filament <p>II) Female reproductive floral organ.</p> <p style="text-align: center;">Carpel / Pistil</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>↓</p> <p>Stigma</p> </div> <div style="text-align: center;"> <p>↓</p> <p>Style</p> </div> <div style="text-align: center;"> <p>↓</p> <p>Ovary</p> </div> </div> <p><u>Types of flowers :-</u></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>↓</p> <p>Unisexual flowers</p> <ul style="list-style-type: none"> Having only one type of reproductive organ <p>eg:-</p> <ul style="list-style-type: none"> Papaya Cucumber Maize </div> <div style="text-align: center;"> <p>↓</p> <p>Bisexual flowers.</p> <ul style="list-style-type: none"> Having both male and female sex organs. <p>eg:-</p> <ul style="list-style-type: none"> Rose Mustard Sunflowers. </div> </div>

G	A	G	E
Generate meaning	Apply to Real life	Change the meaning	Extended
<p>are known as bisexual (or) dioecious flowers</p> <p>eg: Rose & Mustard</p> <p>Some of the flowers contains only one sex organ either male or female are known as unisexual flowers.</p> <p>eg Cucumber and Papaya.</p> <p>Transfer of pollen grain from anther to stigma of a flower is known as pollination.</p>	<p>Students will dissect the given flower and arrange its various parts.</p> <p>Discuss the distinguishing features and characteristics of each type of flower</p> <p>Students will explain the key differences and significance of unisexual and bisexual flower.</p>	<p>Draw the labeled diagram illustrating the process of sexual reproduction.</p> <p>Draw the labeled diagram of male and female reproductive parts of flower.</p> <p>Deliver a presentation</p>	<p>Solve the given work-sheet on sexual reproduction in flowering plants.</p> <p>Make a assignment on the sexual reproduction in flower.</p>

Topic / Subtopic	E	N
	Engage learners	Navigate content

- Each child will be able to explain the self and cross pollination.

Pollination :-
Transfer of pollen grains from other flowers to stigma of same / different flowers.



- Each child will be able to explain the different agents of pollination.

• Pollen grain of a flower transferred to the stigma of either same or genetically similar flowers

• Pollen grains from the anther of one flower are transferred to the stigma of another plant

Agents of Pollination :-

- Wind
- Air
- Water
- Insect
- Snail
- Reptiles

G	A	G	E
Generate meaning	Apply to real life	Grade the meaning	Extend

- Pollination is of two types.
- Self pollination
- Cross pollination

• Students will explain the significance of pollination in plant reproduction

- Pollination can be facilitated by
 - Wind
 - Insect
 - Water
 - Animals.

Students will discuss about some real-world examples of plants & crops that rely on specific pollinators.

On various aspects of sexual reproduction and pollination in flowers.

Link of quiz will be shared that include MCQs and short answer type questions.