

# Unit 1 Reproduction in Flowering Plants

Content Area: **Science**  
Course(s): **Horticulture 2**  
Time Period: **February**  
Length: **8 blocks**  
Status: **Published**

## **Transfer**

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At the end of this unit of instruction students will be able to identify structure and function of flowering plant parts.

## **Enduring Understandings**

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Plants have adapted structures and strategies which allow them to reproduce sexually.

Sexual reproduction ensures continued genetic diversification which enhances survival.

Many ingenious methods of pollination are utilized by plants to ensure fertilization and thus species propagation.

## **Essential Questions**

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If species naturally evolve and die off, why are we trying to save the rainforest?

Why are weeds weeds, and flowers flowers?

## **Content**

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## **Vocabulary**

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Pollination, complete flower, self-fruitful, sepals, petals, stamen, pistil, ovules, stigma, style, ovary, ovules, incomplete flower

## **Learning Objectives**

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Identify the functions of flower and recognize it as the organ of sexual reproduction.

Examine and identify male and female floral structures.

Describe the basics of the process of pollination.

Observe a wide variety of adaptations that flowering plants have evolved to attract pollinators.

## **Standards**

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HS-LS1-2 Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.

HS-LS2-7 Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.

HS-LS4-4 Construct an explanation based on evidence for how natural selection leads to adaptation of populations.

SCI.9-12.SEP.1.a.1	that arise from careful observation of phenomena, or unexpected results, to clarify and/or seek additional information.
SCI.9-12.SEP.1.b	Evaluate a question to determine if it is testable and relevant.
9-12.HS-LS1-2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.
9-12.HS-LS2-7	Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.
9-12.HS-LS4-4	Construct an explanation based on evidence for how natural selection leads to adaptation of populations.  Observed patterns in nature guide organization and classification and prompt questions about relationships and causes underlying them.  Events have causes, sometimes simple, sometimes multifaceted. A major activity of science is investigating and explaining causal relationships and the mechanisms by which they are mediated. Such mechanisms can then be tested across given contexts and used to predict and explain events in new contexts.

## **Resources**

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Text:

Introductory Horticulture 8th ed(Cengage Learning), Hardcover (2011)  
by H Edward Reiley, Carroll L Shry

Greenhouse

Planting Materials including soil, water, seeds, Fertilizer.

Flower

Weed Samples