

Highlands-Cashiers LAND TRUST

"Saving Special Places since 1909"

FUN with FLOWERS A BACKYARD NATURE DISCOVERY

Objective: Students will understand flower anatomy and be able to identify the various methods of flower pollination.

A Flower's Life

Most flowers have the same basic parts: sepal, petal, stamen (made of anther and filament), and pistil (stigma, style, ovary).

Flowering plants are called **angiosperms**. Pollination is an important part of an angiosperm's life cycle.

Pollination is the process of moving pollen from the stamen of one plant to the pistil of another plant of the same species.

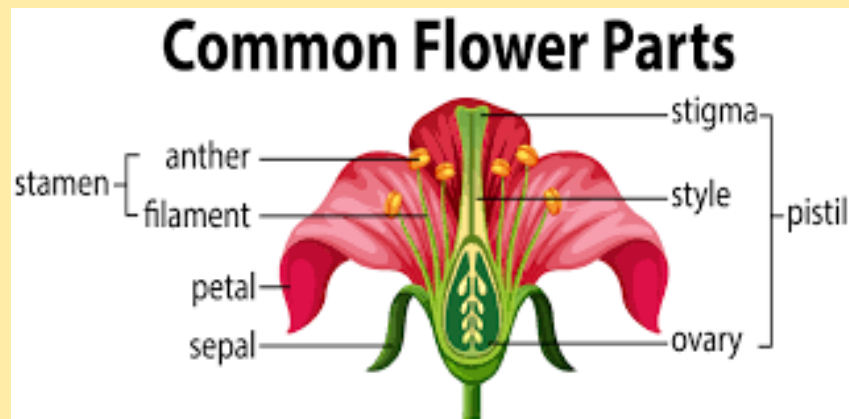


Diagram of Complete Flower and Reproductive Parts

**DISSECT A FLOWER AND SEE IF YOU
CAN FIND ALL OF THE PARTS!**

<https://www.youtube.com/watch?v=T8tmVMyzu18>

Some flowers pollinate themselves. Others cross-pollinate with a new flower. Plants cannot walk around, so cross pollinators rely on extra help!

POLLINATING AGENTS

WIND

Ripe flowers scatter pollen which is then carried by the wind to other flowers.



INSECTS

Ripe pollen from a flower's stamens sticks to an insect's body. The insect then flies to another flower and deposits the pollen on the receptive stigma.

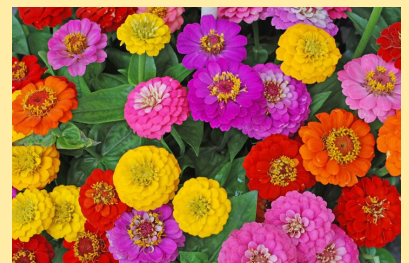


Land plants use wind and animals to assist pollination. Aquatic plants use water to pollinate. Showy flowers offer vivid colors, a nice fragrance, and food (nectar and pollen) to attract specific animal pollinators. For example, bees' hairy legs are perfect for picking up sticky pollen, and butterflies' long proboscis mouths easily drink hidden nectar.



**DOWNLOAD THIS
POLLINATOR ACTIVITY
SHEET TO LEARN MORE!**

Do you think the following plants use **wind** or **animal** pollination?



FLOWER CRAFTS

Press Flowers



<https://youtu.be/vHudu3Co65g>

Cherry Blossom Fairy Lights



<https://www.redtedart.com/egg-carton-spring-crafts-blossom-fairy-lights-from-egg-cartons/>

Fabric Button Flowers



https://creativefamilyfun.net/spring-button-flowers/#_a5y_p=1364047

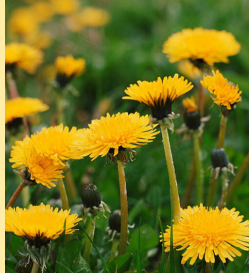
Mother's Day Card



<https://www.easypeasyandfun.com/diy-rolled-paper-roses-valentines-day-card/>

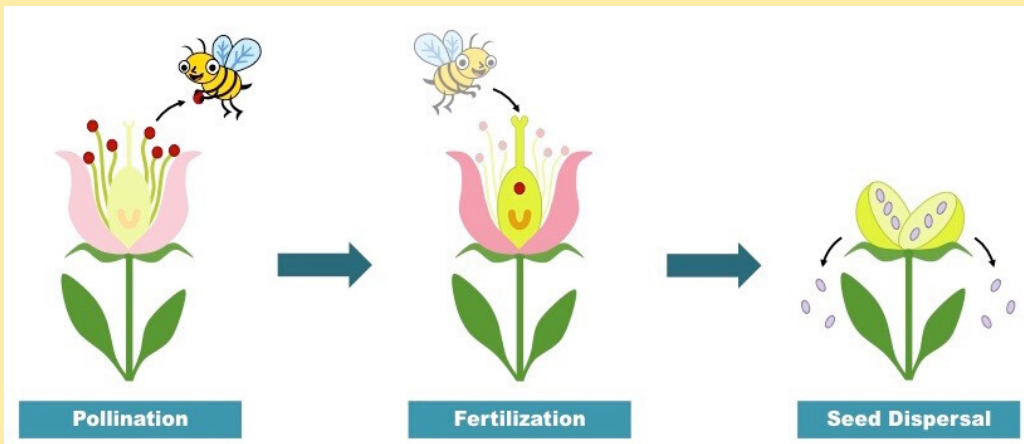
WIND POLLINATION GAME

Your breath is the wind. The bubbles are the pollen. Pick a spot outside and set some target flowers. Wind (student), can you help the pollen (bubbles) reach the other flowers?























What happens after pollination?

Pollen will often use the help of friends (wind and animals) to enter the stigma and reach the ovary. When the pollen reaches the ovary, the ovary becomes fertilized. Fruits and seeds are then produced. Seeds will grow and the new plant's life cycle continues.



**USE OUR FLOWER BINGO
TO EXPLORE LOCAL
WILDFLOWERS!
SEE IF YOU CAN FIND
FOUR IN A ROW!**

| FLOWER BINGO | | | |
|---|---|--|---|
| Wind Pollination  | Clover  | Yarrow  | Sweet Shrub  |
| Flowering Dogwood Tree  | Pink Lady's Slipper  | Mountain Laurel  | Goldenrod  |
| Rhododendron  | Pollinator  | Eastern Redbud Tree  | Reproductive Parts  |
| Painted Trillium  | Orange Jewelweed  | Fraser Magnolia  | Tulip Poplar Tree  |
| Black Locust Tree  | Common Violet  | Pollinator  | Mayapple  |