

# BACKYARD ECOSYSTEM

## POLLINATION

Grades 3-6

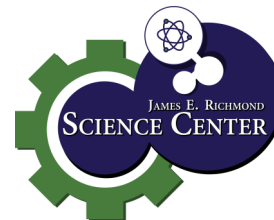
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ACTIVITY



CHARLES COUNTY PUBLIC SCHOOLS  
5305 Piney Church Road  
Waldorf, MD 20602  
301.934.7464  
[www.ccboe.com/ScienceCenter](http://www.ccboe.com/ScienceCenter)



## UNIT **BACKYARD ECOSYSTEM** LESSON **4**



# Parent Resources for Pollination: Bees & Butterflies

### Goals of this lesson:

- Student will read facts about pollination
- Student will identify pollinators and complete a pollinator matching activity

For Additional Information cut and paste the links into your browser:

### Eden Project:

<https://www.edenproject.com/learn/for-everyone/what-is-pollination-a-diagram-for-kids>

### Pollination for Kids

<https://youtu.be/CUPzbTuJlgc>

### Like Fruit? Thank a Bee!

<https://www.youtube.com/watch?v=txv2k7OoY7U>

### Pollination: Trading Food for Fertilization

<https://www.youtube.com/watch?v=LiczM-w3V-U>

We would love to see your creativity and hear about your experience with our lessons, so please tag us at James E. Richmond Science Center on Facebook and Twitter.

# Pollination: Bees & Butterflies

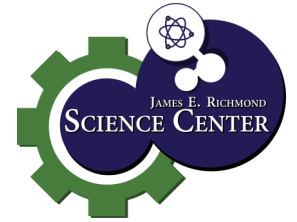
## How does pollination work?

Have you seen how bees surround your garden? If you observe them carefully, you will see bees go from one flower to another as they try to gather nectar (a sugary drink) from the flowers.

Nectar which turns to honey serves as food for the bees, and as the bees pass through each flower the pollen sticks from the plants' anther onto the bees' legs, and then gets transported to the stigma.



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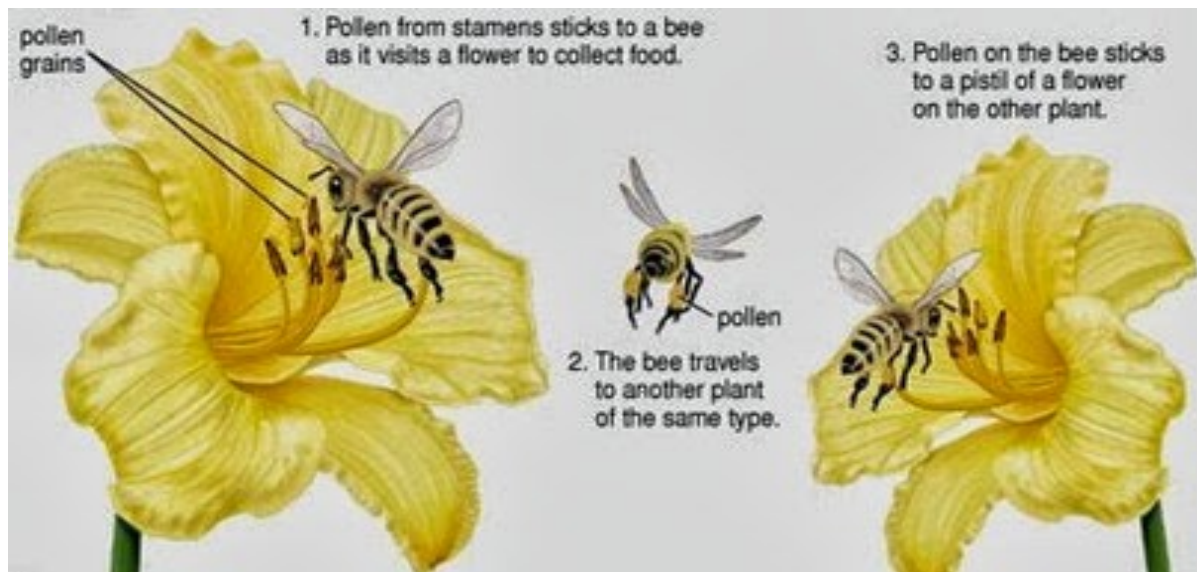


### Pollination: Bees & Butterflies

Pollination happens when pollen created from the plant's male reproductive system (stamen) is moved to the female reproductive system (called the pistil). This fertilizes the plant's cells to produce seeds.

This is pollination.

Most plants rely on bees and other insects or animals for pollination, although certain plants can be pollinated by wind or water. The agents of pollination are animals, wind, water and winged insects.





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# Pollination: Bees & Butterflies

## What are pollinators?

A pollinator is a living organism or animal that helps pollination. These animals may not be aware that they are helping in pollination, but isn't it great to know that they aid in this function?

Animals that help plants in pollination include insects such as bees, butterflies, moths, beetles birds and bats. Flowers have bright petals to appeal to bees and butterflies. Hummingbirds go to long tubular flowers that allow them to get nectar. Bats are usually drawn to flowers that open only at night. All of these animals help with pollination.



(a) Honeybee drinking nectar from a foxglove flower



(b) Ruby-throated hummingbird drinking nectar from a trumpet creeper flower

## Why are bees and other insects so important?

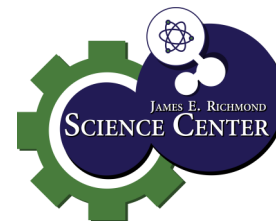
Without bees and animals that act as pollinators, pollination would not happen.

Most plants are designed for insects and animals to help transfer pollen and start fertilization of seeds. If bees and insects die, no one will be able to pollinate plants and we will lose our source of food and oxygen. We need bees and other animals to help encourage pollination and help to cultivate plants.

Tell you family and friends how bees and other insects are great contributors to plants and make them aware of why they are important to the environment and to us.

How cool is it that all of this happens in YOUR Backyard?!

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### Pollination: Bees & Butterflies

#### Pollinator Research

Look at the chart below and circle the pollinator with the item they help create. You may need adult help.

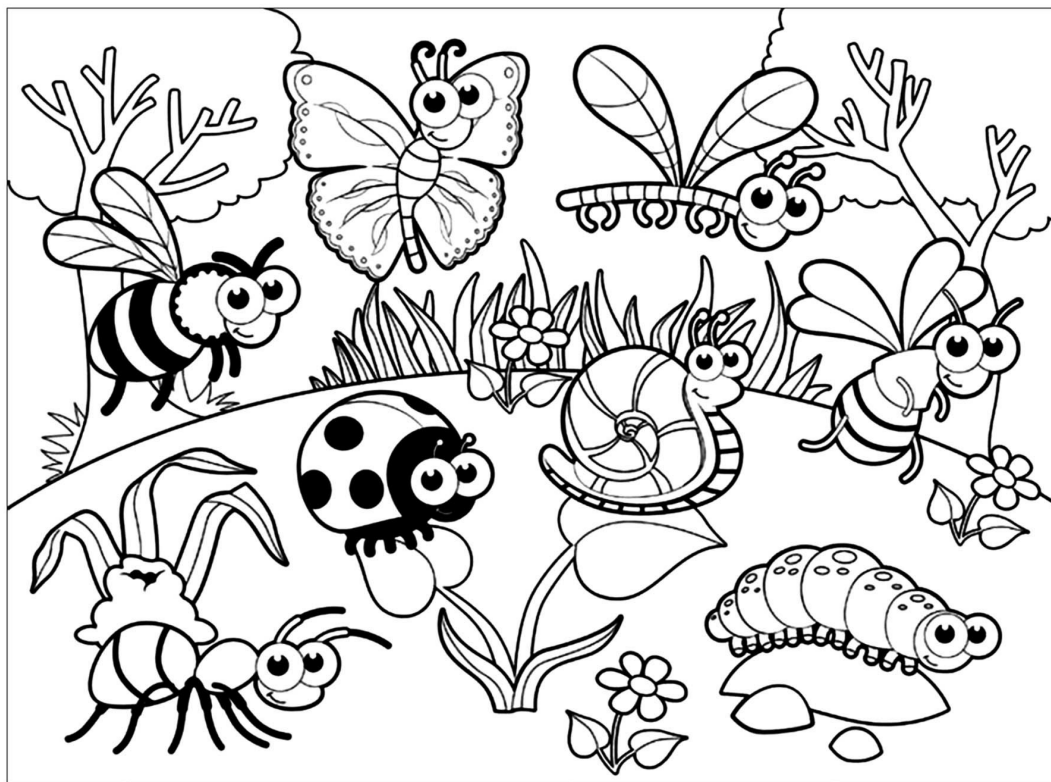
FOOD	POLLINATOR (circle the correct answer)		
Avocado	Flies	Bats	Both
Bananas	Birds	Fruit Bats	Both
Cherries	Honey Bees	Bumble Bees	Both
Cashews	Moths	Fruit Bats	Both
Macadamia Nuts	Beetles	Wasps	Both
Mango	Flies	Wasps	Both
Papaya	Moths	Birds	Both
Peppermint	Flies	Bees	Both

# UNIT BACKYARD ECOSYSTEM LESSON 4



## Pollination: Bees & Butterflies

Color the pictures of pollinators at work!



Do you have a favorite pollinator?

Which pollinators are missing?

