

Classroom Pollinator Education Resources for Grades 5-8

Compiled by [Bianca's Education Corner](#) from publicly available sources

TABLE OF CONTENTS

[Grades 5-6](#)

[CURRICULUM](#)

[LESSONS AND ACTIVITIES](#)

[Grades 7-8](#)

[CURRICULUM](#)

[LESSONS AND ACTIVITIES](#)

[Additional Resources - Bees](#)

[Additional Resources - Other Pollinators](#)

[General Resources – Science Standards](#)

*If you would like to suggest additional resources for inclusion on this list,
please [Contact the Honey Bee Health Coalition](#)*

Grades 5-6

CURRICULUM

Produced By	Title	Description	Length	Grade Level	Notes
Pollinator Partnership	Bee Smart School Garden Kit	Increase students' understanding in science, math, and language arts by connecting them to plants, pollinators, food, and gardens by (potentially) creating habitat for pollinators.	10 lessons	3-6	\$85 or \$175 US and Canadian kits available School, home, and online components CA School Standards
Pollinator Partnership, The Bee Cause & Whole Kids Foundation	Nature's Partners	Comprehensive pollinator curriculum	6 Lessons	3-6	Free Includes educator guide
Smithsonian Center for Education and Museum Studies	Plants and Animals: Partners in Pollination	Students learn about the parts of flowers (and the parts of bees) and the symbiotic relationship behind pollination. Lesson plans introduce the role bees play in the production of many of our foods.	3 Lessons	3-8	Correlation with National Science Standards (Grades 5-8)
National Honey Board	The Honey Files: A Bee's Life	Honey Bee curriculum		4-6	Developed in 2001
University of Arizona	Africanized Honey Bee Education Project	Africanized honey bees are now a feature of the SW. This curriculum was developed to familiarize students with honey bees and bee safety issues	8 Lessons	K-8	\$17 cost

Produced By	Title	Description	Length	Grade Level	Notes
Pollinator Partnership	Pollinator Gardening and Habitat Program	A butterfly and pollinator garden program with multi-disciplinary curriculum.	12 Lessons (Grade 5) 5 Lessons (Grade 6)	K-12	California State Content Standards correlation— Grades 3-5: Science, Language Arts, Math Grades 6-8: Science & Language Arts
BeeCause	The Complete 6 Week Bee Unit + Teacher Guides	Explore the lives of bees	6 Weeks	3-5	Teacher guide, Assessment, Literature circle, Guide, Activities, Core compliant lesson plans
Project Seasons, Shelburne Farms	Pollination Parade	Students explore the relationship between plants and their pollinators		3-6	Correlation with National Science Standards (Grades 5-8)

LESSONS AND ACTIVITIES

Produced By	Title	Description	Length	Grade Level	Notes
Planet Bee Foundation	Humble Honey Bee	This lesson dives into the importance of honey bees, pollination, honey bee anatomy, the 3 castes, bee jobs, metamorphosis, how honey is made, pheromones, and the waggle dance!	1 Lesson, 1 Hour	2-8	Virtual Lesson (asynchronous) Aligned with Next Gen Science Standards & Common Core Sliding scale costs; scholarships/free programming available
NACD, David Rockefeller Fund Pollinator Education Initiative Grant & Pollinator Partnership	Pollinator Field Day Curriculum	Habitat-focused, pollinator-themed activities for the classroom and outdoors.		K-8	Correlated to education standards Provides a pathway to valuable partnerships with local soil and water conservation districts

Produced By	Title	Description	Length	Grade Level	Notes
New York Times	The Blossoming of Flower Power	In this lesson, students explore the reproductive functions of flowers by participating in a flower dissection lab	1 Lesson, 1 hour	6-8	Correlation with National Science Standards (Grades 5-8) Developed in 1999
Planet Bee Foundation	Bee-ometry	This STEM lesson explores math and engineering concepts to teach students why hexagons are the most efficient shape for a cell. We review honey bee biology, jobs in the hive, pollination, and why bees are so important.	1 Lesson, 1 Hour	K-12	Virtual Lesson (Real Time) Aligned with Next Gen Science Standards & Common Core Sliding scale costs; scholarships/free programming available
Planet Bee Foundation	Do the Waggle!	Explore the importance of communication in the honey bee's waggle dance through inquiry and observation. Students will learn to identify the basic structure of a waggle dance and relate to them as mathematical concepts seen in the classroom. Students will demonstrate understanding through sketches and mathematical modeling of bee communication in the form of shapes and angles.	1 Lesson, 1 Hour	Grades K-12	Virtual Lesson (Real Time) Aligned with Next Gen Science Standards & Common Core Sliding scale costs; scholarships/free programming available
Clemson University & PollinatorLIVE	Moth Moonflower	Students become hawkmoths and attempt to collect nectar and		1-6	Correlation with National Science Standards (Grades 5-8)

Produced By	Title	Description	Length	Grade Level	Notes
	Pollination Game	pollen from flowers while avoiding becoming prey to the predators lurking in the garden. They will investigate the proboscis of the moth as an adaptation allowing it to feed and survive. They also will investigate ways living things interact with each other in the nocturnal garden			

Grades 7-8

CURRICULUM

Produced By	Title	Description	Length	Grade Level	Notes
Smithsonian Center for Education and Museum Studies	Plants and Animals: Partners in Pollination	Students learn about the parts of flowers (and the parts of bees) and the symbiotic relationship behind pollination. Lesson plans introduce the role bees play in the production of many of our foods.	3 Lessons	3-8	Correlation with National Science Standards (Grades 5-8)
University of Arizona	Africanized Honey Bee Education Project	Africanized honey bees are now a feature of the SW. This curriculum was developed to familiarize students with honey bees and bee safety issues	6 Lessons	K-8	\$17 cost
Pollinator Partnership	Pollinator Gardening and Habitat Program	A butterfly and pollinator garden program with multi-disciplinary curriculum.	5 Lessons	K-12	California State Content Standards correlation Grades 6-8: Science & Language Arts

LESSONS AND ACTIVITIES

Produced By	Title	Description	Length	Grade Level	Notes
Planet Bee Foundation	Humble Honey Bee	This lesson dives into the importance of honey bees, pollination, honey bee anatomy, the 3 castes, bee jobs, metamorphosis, how honey is made, pheromones, and the waggle dance!	1 Lesson, 1 Hour	2-8	Virtual Lesson (asynchronous) Aligned with Next Gen Science Standards & Common Core Sliding scale costs; scholarships/free programming available
New York Times	The Blossoming of Flower Power	In this lesson, students explore the reproductive functions of flowers by participating in a flower dissection lab	1 Lesson, 1 hour	6-8	Correlation with National Science Standards (Grades 5-8)

Produced By	Title	Description	Length	Grade Level	Notes
Planet Bee Foundation	Bee-ometry	This STEM lesson explores math and engineering concepts to teach students why hexagons are the most efficient shape for a cell. We review honey bee biology, jobs in the hive, pollination, and why bees are so important.	1 Lesson, 1 Hour	K-12	Virtual Lesson (Real Time) Aligned with Next Gen Science Standards & Common Core Sliding scale costs; scholarships/free programming available
Planet Bee Foundation	Do the Waggle!	Explore the importance of communication in the honey bee's waggle dance through inquiry and observation. Students will learn to identify the basic structure of a waggle dance and relate to them as mathematical concepts seen in the classroom. Students will demonstrate understanding through sketches and mathematical modeling of bee communication in the form of shapes and angles.	1 Lesson, 1 Hour	Grades K-12	Virtual Lesson (Real Time) Aligned with Next Gen Science Standards & Common Core Sliding scale costs; scholarships/free programming available
NACD, David Rockefeller Fund Pollinator Education Initiative Grant & Pollinator Partnership	Pollinator Field Day Curriculum	Habitat-focused, pollinator-themed activities for the classroom and outdoors.		K-8	Correlated to education standards Provides a pathway to valuable partnerships with local soil and water conservation districts

Additional Resources - Bees

- [Powerpoint Presentations for Teaching from Michigan State University - Attracting Beneficial Insects with Native Flowering Plants](#)
- [List of Pollinated Foods](#)
- [What is a Pollinator?](#)
- [“Starting a Wildlife Habitat Garden” Bay Nature](#)
- [Bee Informed, Bee Prepared](#)
- [Kids and Bees Resource Booklet: Ideas and Inspirations for Teaching Kids about Bees](#), by Sarah Red-Laird
- [Junior Master Gardener Program](#)

Additional Resources - Other Pollinators

- [A look at Illinois Prairie Butterflies from the Notebaert Nature Museum](#) (video)
- [Protecting Monarch: What You Can Do To Support Monarch Butterflies](#)
- [Like a Moth to a Flower](#)
- [Plight of the Pollinator: Save Money, Time and Energy with IVM and Energy Rights-of-Way for Wild Pollinators](#)

General Resources – Science Standards

- [National Science Education Standards](#)
- [Next Generation Science Standards](#)