

# Classroom Pollinator Education Resources for Grades K-4

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

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

# Kindergarten

## CURRICULUM

Produced By	Title	Description	Length	Grade Level	Notes
University of Arizona	<a href="#">Africanized Honey Bee Education Project</a>	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-3	\$17 cost
Pollinator Partnership	<a href="#">Pollinator Gardening and Habitat Program</a>	A butterfly and pollinator garden program with a multi-disciplinary curriculum.	3 Lessons	PreK-K	California State Content Standards correlation: Language Arts & Math

## LESSONS AND ACTIVITIES

Produced By	Title	Description	Length	Grade Level	Notes
Smithsonian Institution & PollinatorLIVE	<a href="#">Here Come the Sunflowers</a>	Students will have an opportunity to learn about sunflowers and plant sunflower seeds, a native plant of the North American prairie.	1 Lesson	PreK-1	
Planet Bee Foundation	<a href="#">Intro to Bees</a>	This lesson is the perfect introduction to our fuzzy friends, both native bees and honey bees. It goes over the importance of bees to our food system and ecosystem, as well as pollination. It introduces concepts like co-evolution, keystone species, and the food chain!	1 Lesson	K-3	Virtual Lesson (asynchronous)  Aligned with Next Gen Science Standards & Common Core  Sliding scale costs w/scholarships/free programming available

Produced By	Title	Description	Length	Grade Level	Notes
TheBee Cause & SC Ag in the Classroom	<a href="#">Digital Field Trip: Farm to Table</a>	A unique roadmap from the farm to a local food hub and finally to the table of a local restaurant	1 Lesson	K-3	Resources, Recommended Reading List, Activities, Discussion Questions, and the full recipe for Basic Kitchen's Collard Roll with Yuzu Dipping Sauce!
Planet Bee Foundation	<a href="#">Bee-ometry</a>	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	<a href="#">Do the Waggle!</a>	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	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	<a href="#">Pollinator Field Day Curriculum</a>	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

## Grades 1-2

### CURRICULUM

Produced By	Title	Description	Length	Grade Level	Notes
Abuzz for Honey Bees	<a href="#">Abuzz for Honey Bees</a>	A honey bee supplement to the study of habitats, interaction between plants and animals, animal adaptation, etc.	2 days, 2 hours ea	2-3	
EL Education	<a href="#">Research to Build Knowledge and Teach Others: The Secret World of Pollination</a>	In this module, students build their research skills and science knowledge through a study of the secret world of plants and pollinators. In Unit 1, students navigate informational text features, co-create Plant, Seed, Fruit, and Flower Frayer Model anchor charts, create scientific drawings, and participate in a Science Talk, all focused on learning about how plants grow and survive.	10+ Lessons	2	G2-Module 3
EL Education	<a href="#">Providing for Pollinators</a>	Students explore the module guiding questions: "Why should people help pollinators to survive? How can I take action to help pollinators?"	10+ Lessons	2	G2-Module 4
University of Arizona	<a href="#">Africanized Honey Bee Education Project</a>	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-3	\$17 cost
Pollinator Partnership	<a href="#">Pollinator Gardening and Habitat Program</a>	A butterfly and pollinator garden program with multi-disciplinary curriculum.	13 Lessons	1-2	California State Content Standards correlation Grade 1-2: Science, Language Arts, Math

## LESSONS AND ACTIVITIES

Produced By	Title	Description	Length	Grade Level	Notes
Planet Bee Foundation	<a href="#">Intro to Bees</a>	This lesson is the perfect introduction to our fuzzy friends, both native bees and honey bees. It goes over the importance of bees to our food system and ecosystem, as well as pollination. It introduces concepts like co-evolution, keystone species, and the food chain!	1 Lesson	K-3	Virtual Lesson (asynchronous)  Aligned with Next Gen Science Standards & Common Core  Sliding scale costs; scholarships/free programming available
Smithsonian Institution & PollinatorLIVE	<a href="#">Here Come the Sunflowers</a>	Students will have an opportunity to learn about sunflowers and plant sunflower seeds, a native plant of the North American prairie.	1 Lesson	K-1	<a href="#">Correlation with National Science Standards</a>
TheBee Cause & SC Ag in the Classroom	<a href="#">Digital Field Trip: Farm to Table</a>	A unique roadmap from the farm to a local food hub and finally to the table of a local restaurant	1 Lesson	K-3	Resources, Recommended Reading List, Activities, Discussion Questions, and the full recipe for Basic Kitchen's Collard Roll with Yuzu Dipping Sauce!
Planet Bee Foundation	<a href="#">Humble Honey Bee</a>	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 w/scholarships/free programming available

Planet Bee Foundation	<a href="#">Bee-ometry</a>	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 w/scholarships/free programming available
Planet Bee Foundation	<a href="#">Do the Waggle!</a>	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	K-12	Virtual Lesson (Real Time)  Aligned with Next Gen Science Standards & Common Core  Sliding scale costs w/scholarships/free programming available
NACD, David Rockefeller Fund Pollinator Education Initiative Grant & Pollinator Partnership	<a href="#">Pollinator Field Day Curriculum</a>	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

## Grades 3-4

### CURRICULUM

Produced By	Title	Description	Length	Grade Level	Notes
Abuzz for Honey Bees	<a href="#">Abuzz for Honey Bees</a>	A honey bee supplement to the study of habitats, interaction between plants and animals, animal adaptation, etc.	2 days, 2 hours ea	2-3	
Lady Bird Johnson Wildflower Center	<a href="#">Exploring the Native Plant World</a>	Students build on their knowledge of what plants must do to survive.	5 Lessons, 25 Activities	3-4	
Pollinator Partnership	<a href="#">Bee Smart School Garden Kit</a>	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	<p>\$85 - \$175</p> <p>US and Canadian kits available</p> <p>School, home, and online components</p> <p>CA School Standards</p> <p>Lessons, tests, activities</p>
Pollinator Partnership, The Bee Cause & Whole Kids Foundation	<a href="#">Nature's Partners</a>	Comprehensive pollinator curriculum	6 Lessons	3-6	Free
Project Seasons, Shelburne Farms	<a href="#">Pollination Parade</a>	Students explore the relationship between plants and their pollinators		3-6	<a href="#">Correlation with National Science Standards</a>
Smithsonian Center for Education and Museum Studies	<a href="#">Plants and Animals: Partners in Pollination</a>	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	3 Lessons	3-8	<a href="#">Correlation with National Science Standards</a>

		in the production of many of our foods.			
National Honey Board	<a href="#">The Honey Files: A Bee's Life</a>	Honey Bee curriculum		4-6	
University of Arizona	<a href="#">Africanized Honey Bee Education Project</a>	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-3) 8 Lessons (4-6)	K-8	\$17 cost
Pollinator Partnership	<a href="#">Pollinator Gardening and Habitat Program</a>	A butterfly and pollinator garden program with multi-disciplinary curriculum.	12 Lessons	K-12	California State Content Standards correlation Grade 1-2: Science, Language Arts, Math Grades 3-5: Science, Language Arts, Math
BeeCause	<a href="#">The Complete 6 Week Bee Unit + Teacher Guides</a>	Explore the lives of bees	6 Weeks	3-5	Teacher guide Assessment Literature circle Guide Activities Core compliant lesson plans

## LESSONS AND ACTIVITIES

Produced By	Title	Description	Length	Grade Level	Notes
Planet Bee Foundation	<a href="#">Intro to Bees</a>	This lesson is the perfect introduction to our fuzzy friends, both native bees and	1 Lesson	K-3	Virtual Lesson (asynchronous)



		honey bees. It goes over the importance of bees to our food system and ecosystem, as well as pollination. It introduces concepts like co-evolution, keystone species, and the food chain!			Aligned with Next Gen Science Standards & Common Core Sliding scale costs; scholarships/free programming available
TheBee Cause & SC Ag in the Classroom	<a href="#">Digital Field Trip: Farm to Table</a>	A unique roadmap from the farm to a local food hub and finally to the table of a local restaurant	1 Lesson	K-3	Resources, Recommended Reading List, Activities, Discussion Questions
Planet Bee Foundation	<a href="#">Humble Honey Bee</a>	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
Planet Bee Foundation	<a href="#">Bee-ometry</a>	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	<a href="#">Do the Waggle!</a>	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	1 Lesson, 1 Hour	K-12	Virtual Lesson (Real Time)  Aligned with Next Gen Science

		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. Our Honey Bee Video Lesson Series and differentiated supplemental materials are included in this workshop.			Standards & Common Core  Sliding scale costs; scholarships/free programming available
NACD, David Rockefeller Fund Pollinator Education Initiative Grant & Pollinator Partnership	<a href="#">Pollinator Field Day Curriculum</a>	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
Clemson University & PollinatorLIVE	<a href="#">Moth Moonflower Pollination Game</a>	Students will attempt to collect nectar and 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 investigate ways living things interact with each other in the nocturnal garden		1-6	<a href="#">Correlation with National Science Standards (Grades K-4)</a>

## Additional Resources - Bees

- [Abuzz! News from the Hive](#) (educational magazine from The Bee Conservancy)
- [National Geographic Kids – Honey Bees](#)
- [List of Pollinated Foods](#)
- [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**

- [Children's Monarch Books](#)
- [Insect Lore](#) - Live Butterfly Kits

## **General Resources – Science Standards**

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