

Pollinator Activities - Middle to High School

Subject	Lessons/Activities	Resources	Lesson Objective: Students will	Project Tasks
Science - outdoor and physical activities	Pollinator Habitats	iNaturalist - Smartphone App	Focus on spatial location and habitat of their pollinator and/or vegetable garden (next to school building in beds, further away, near water source (creek, river, pond), is it near other nature features (woods, prairie, wetland). To track and display a set of observations all observations made by a group (such an individual, a class, or for a group), or perhaps all butterflies in your country, then a wildflower, bee, or butterfly Collection project would be a good fit.	1. Students will observe and describe the specific habitat of the area of study and surrounding ecology. iNaturalist: 1. City Nature Challenge 2020 (take pictures, spatial location, of 20 species of wildflower, bees, butterflies ID and post to app.
Science - Technology	Pollinator Needs	Milkweed Flyer	Neighborhood focus on Milkweed for Monarchs which plant for Monarch Butterflies that is a critical species for survival. Record spatial location, take pictures, ID types and habitat (roadside, field, nature preserve, park, school, planted at business or residence).	2. Students will observe and categorize the types and colors of plants being used by pollinators (butterflies, bees, wasps, bats.)
Science - Engineering	Pollinator Structure	Anatomy of a Butterfly	Observe the physical details, structure and components of pollinators. Build a bee, butterfly, or moth. (Pretzels, pipe cleaners, gummy parts,	1. Use food or household items to build the structures and components of a pollinator.
Science - Art	Scientific Drawing	Constructing Pollinators	Students will use their knowledge of pollinators to construct a fictional pollinator.	1. Draw butterfly, bee, moth and write narrative from handout
Science - Math	Pollinator to Plant Function		Learn habitat function to explore the ratio's of successful pollinators, vegetable plants, insect pests, healthy vs. damaged plants. Students can work in teams to categorize and count pollinators, plants, insect pests, and any vegetables or fruit being produced.	1. Square off a 3ftx3ft section of garden - categorize by counting all plants that are healthy and all plants that show insect damage or withering. 2. Count all pollinators and insects found for a ratio of each to the number of plants
Subject	Lessons/Activities	Resources	Lesson Objective: Students will	Project Tasks
Language Arts - Reading	Pollinator Understanding	Web links Video	Web : https://www.fs.fed.us/wildflowers/pollinators/Monarch_Butterfly/ Video: Plight of the Monarch https://www.youtube.com/watch?v=zZKbZdLtBoM How Gardeners Can Help Pollinators. https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/plantsanimals/pollinate/gardeners/	1. Write the lifecycle of the Monarch Butterfly (5 stages) 2. List the 7 ways to make a garden a haven for native pollinators
Language Arts - Research	Pollinator Challenge	Pollinator Trivia	Work as an individual or in teams to find all of the pollinator facts and trivia using their computers to figure out the answers.	1. Complete Pollinator Trivia Challenge
Language Arts - Writing/Storytelling	Pretend Pollinator	Constructing Pollinators	Use knowledge of local pollinators including their role in the garden, habitat and eating habits, to create an imaginary pollinator. Write a story about the creature.	1. 1-2 page story and picture drawing of imaginary species