



Nature-Watch Activity Kit

Butterfly Feeder

(Nature Watch Kit #162)

Kit Contents

<u>Item:</u>	<u>Kit Size</u>		
	1	25	100
	<u>Quantities:</u>		
Yellow Foam Flowers	1	25	100
Red Felt Pieces	1	25	100
Plastic Bottles & Caps	1	25	100
Printed Green Sheets	1	25	100
Butterfly Attractant (nectar)	½ tsp	1 box	3 boxes
Mixing Bottles & Caps	0	2	4
Plastic Spoons	0	2	4
Instructor's Manual	1	1	1

Notes:

1. Attractant for single kits is already in the bottle.
2. Printed green sheets come in pads for larger kits.

This page includes the Next Generation Science Standards (NGSS) mapping for this kit and Science, Technology, Engineering, and Math (STEM) extensions (on back) to use in adapting and extending this activity to other subject areas.

Next Generation Science Standards Alignment

K-ESS3-3. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

2-LS2-2. Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.

2-LS4-1. Make observations of plants and animals to compare the diversity of life in different habitats.

3-LS4-3. Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.

MS-LS2-2. Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.

MS-LS1-4. Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.

**See Back for
STEM Extensions**

This Nature Watch Activity Kit contains an Instructor Manual and materials to implement the curriculum. The kit was designed to be used with adult supervision only. Unsupervised use is not recommended.



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STEM Extensions

Science

Bats, bees, and birds are pollinators, too. Research their roles in pollination (where? which plants? how?) and create a poster that shows all four pollinators – bats, bees, birds, and butterflies – in their natural habitat with plants that they pollinate.

Plant a small butterfly garden. Find out the kinds of plants that butterflies like best and place your feeder among them.

Make a scrapbook of a butterfly's favorite flowers. Collect the flowers, press them, and affix them to the scrapbook pages with craft glue. Arrange the flowers by color or size and write descriptions of why butterflies might like these flowers.

Technology

(Younger) Watch a video that describes the monarch butterfly's migration path. What are some of the interesting places the monarchs fly over?

(Older) Go online to learn about the monarch butterfly's migration path. Then, use Google Maps and/or Google Earth to follow the migration path yourself. What are some of the interesting places the monarchs fly over?

Engineering

Design the ultimate flower for butterflies. Think about how to make it comfortable for them to land, safe from the rain, and easy to access the nectar. Draw your design or create it using everyday objects.

Use a birthday party blowout noisemaker as a model proboscis. Modify the tip of the noisemaker to make it easier to get nectar. Use glue, paper, scissors, and other everyday materials to come up with an improved proboscis. Test your design by "drinking" with an original noisemaker and with your modified one.

Math

(Younger) Make a construction paper butterfly and use paper circles and triangles to decorate the wings. See how many shapes you can fit on the wings without overlapping any of them.

(Older) Create geometric butterflies by cutting out colorful paper shapes to put together for their wings. Try triangles, diamonds, rhombuses, and parallelograms. Glue the shapes on paper to make beautiful butterfly wings, then draw in the rest of the butterfly's body. How many different kinds of butterflies can you make?