Nature-Watch Activity Kit

Hummingbird Feeder

Hummingbird Feeder Kit Contents

	Kit Size		
	1	***25***	***100***
Item:	Quantities:		
Red Flowers	1	25	100
Orange Flowers	1	25	100
Chenille Stems	2	50	200
Plastic Vials W/Caps	1	25	100
Wire Pieces	1	25	100
Instructor Manual	1	1	1

This page includes the Next Generation Science Standards (NGSS) mapping for this kit and a Science, Technology, Engineering, and Math (STEM) chart (on back) to use in adapting and extending this activity to other subject areas. The NGSS mapping and STEM chart are brought to you by Resource Area For Teaching (RAFT) in partnership with Nature-Watch.

Nature-Watch and Resource Area For Teaching (RAFT) are both dedicated to providing the best in hands-on experiential teaching resources for educators and their students.

For more information visit:
www.nature-watch.com *and*
www.raft.net

Next Generation Science Standards Alignment

K-LS1-1;
Use observations to describe patterns of what plants and animals (including humans) need to survive.

1-LS1-1;
Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.

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

MS-LS2-1:
Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.

See Back for STEM Chart

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Hummingbird Feeder

Science

- Put different kinds of nectar in the feeder and determine the number of times hummingbirds visit the feeder
- Formulate a hypothesis to test regarding the design of the feeder and the number of hummingbirds attracted to it

Technology

- Visit http://www.hummingbirds.net/ to learn about various hummingbird species and migration patterns
- Learn how to create a hummingbird habitat at your school here: http://www.rubythroat.org/ActivityHummerGardenMain.html

Engineering

- Construct a hummingbird feeder with different materials mimicking real flowers so that scientific questions can be explored and tested regarding hummingbird affinities for shape and color of flowers
- Design and build a flying craft with simple materials that mimics a hummingbird's ability to fly in all directions

Math

- Compare the ratios of wing area to body surface area and identify patterns and relationships
- Analyze hummingbird wings for specific geometric figures. Compare these figures to those found in other bird wings
- Create a table listing the average weight for each species of hummingbird.

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