



# Nature-Watch Activity Kit

## Birds of a Feather

### Birds of a Feather Kit Contents

<u>Item:</u>	<u>Kit Size</u>	
	<b>25</b>	<b>100</b>
Peacock Feathers	25	100
Feather Info Cards	25	100
Assorted Feather Set	1	1
Instructor Manual	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.*

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### **Next Generation Science Standards Alignment**

#### K-ESS3-1:

Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live.

#### 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.

#### 1-LS3-1:

Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.

#### 2-LS4-1:

Make observations of plants and animals to compare the diversity of life in different habitats.

#### 3-LS3-1:

Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.

#### 4-LS1-1:

Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

**See Back for STEM Chart**

## Science

- Identify the species of birds that have feathers similar to peacock feathers
- Research information describing how feathers are a survival mechanism that have allowed birds to survive and pass on traits

## Technology

- Create a photo gallery of feathers from different types of birds
- Upload photos of birds observed during field trips to a Google Drive folder and share it with the class

## Birds of a Feather

## Engineering

- Build the ideal habitat for a peacock that is informed by research from multiple sources
- Create a peacock costume that might allow an observer to get closer to real peacocks without them getting frightened

## Math

- Analyze the feathers for specific geometric arrangements and symmetry
- Research and share information on the number of feathers for various birds, including peacocks and penguins

