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EDUCATION

# What's Your Wingspan?

Students will learn about the wingspan of various local birds while using some simple math skills in a wingspan comparison activity.

 Measuring tape, wingspan chart, chalk, tape or string (optional), a partner

 Grades: all  5-15 minutes

## Introduction

If you were a bird, which bird would you be? The length of your arms, or your wingspan, will tell you!

Wingspan is how wide a bird is from the tip of one wing across to the tip of the other. The smallest bird in the world, the Bee Hummingbird, has a wingspan of only about 5.5 centimetres (the width of a deck of cards). In contrast, the biggest bird in the world is the Wandering Albatross, with a wingspan of 3.7 meters (the length of a small car).

What's your wingspan?



## Directions

1. Fully outstretch your arms (as if you were going to give the biggest hug).
2. Measure the distance from the fingertips of one hand to the fingertips of the other.
3. Compare your measurement to the chart.

## Extension

Draw out your wingspan

- Lay down with your arms stretched out have someone trace your wingspan- this can be done with chalk, tape or string.
- Using the measuring tape, measure and mark out the wingspan of some common birds in your area. Notice how much bigger or smaller they are compared to yours. Create a graph to show these differences.

Bird	Average wingspan
Bee Hummingbird	5.5 cm
Ruby-throated Hummingbird	9.5 cm
Sparrow	20 cm
Black Capped Chickadee	21 cm
Northern Pygmy Owl	38 cm
Raven	43 cm
Merlin	53 cm
Mallard	81 cm
Common Gull	90 cm
Peregrine Falcon	1.1 m
Osprey	1.3 m
Great Horned Owl	1.4 m
Red Tailed Hawk	1.5 m
Canada Goose	1.7 m
Turkey Vulture	1.8 m
Bald Eagle	2 m
Wandering Albatross	3.7 m



*Great Horned Owl*



*Ruby-throated Hummingbird*



*Peregrine Falcon*

## Amazing Facts from the Wonderful World of Wings

1. Not all wings are for flying. Over 60 different birds can't fly! This group of walking birds includes Penguin, Ostrich, Steamer Duck, Emus, Cassowary, and Kiwis.
2. Hummingbirds can fly backwards – like no other birds!
3. The Ruby-throated Hummingbird has the fastest wings in the world, at an astonishing 55 beats per second.
4. The Peregrine Falcon is the fastest animal on Earth. Yes, when in a dive, the Peregrine Falcon can reach 320 km per hour – faster than a running cheetah.
5. Wings are good flying tools because birds have hollow bones, making them very light for their size.
6. Arctic Terns migrate further than any other animal on Earth. Over 25 years, an Arctic Tern will fly the distance from the Earth to the moon 3 times!
7. Scientists don't know for sure which species evolved wings first - insects, birds, bats, or pterosaurs (flying dinosaurs).
8. Owls are silent fliers. This is because the front edge of their primary feathers is serrated, not smooth like other birds, which changes the way the air flows over their wings.



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