



LAND-BASED SEABIRDS IN HAWAI'I

FOR EARLY LEARNERS

Opening Discussion

ACTIVITY 1

**Observing
Land-Based Seabirds**

ACTIVITY 2

**How big are
these birds?**

ACTIVITY 3

`Ōlelo No`eau

These activities are further outlined in the accompanying lesson plan:
https://ksdigitalfiles.ksbe.edu/assets/seabirds/seabirds_lessonplan.pdf



Have you ever
noticed **birds** in
the sky?



Do you know what a
wayfinder or **voyager** is?



Look at the Manuokū!
We are close to the land!

Wayfinders used **birds** to help guide them
when they were sailing and when they
were on land.



NEXT ACTIVITY:

Observe Land-Based Seabirds in Hawai'i!

Let's Go!

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LAND-BASED SEABIRDS IN HAWAII

FOR EARLY LEARNERS

ACTIVITY 1

Observing Land-Based Seabirds



Have you ever noticed that there is sometimes a **manu (bird)** on the star compass?



Voyagers often looked to **birds** and **other aspects of nature** to help guide them in navigation, to find fish, and for hints in the upcoming changes in weather.



Let's take a closer look at some Hawaiian Seabirds



ʻIwa
(Great Frigatebird)



Manuokū
(White Tern)



Noio
(Black Noddy)

Let's take a closer look at some Hawaiian Seabirds



It is sometimes believed that seeing a group of **`Iwa** near shore is a sign that **stormy weather** is approaching.



Wayfinders depended on the sighting of **Manuokū** to know that **land was close by**.



The **Noio** feed in flocks (groups) for fish. Voyagers knew where **fish** might be by observing the noio.



NEXT ACTIVITY:

How big are these birds?

Let's Go!

This activity is further outlined in the accompanying lesson plan:

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The background is a light blue sky with stylized white clouds. Several birds are depicted in flight, scattered across the upper and middle portions of the page. In the bottom right corner, there is a small illustration of two palm trees on a dark blue island. The title is centered at the top, underlined.

LAND-BASED SEABIRDS IN HAWAI'I

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ACTIVITY 2

**How big are
these birds?**

**Do you remember the names of
any of the birds?**



ʻIwa
(Great Frigatebird)



Manuokū
(White Tern)



Noio
(Black Noddy)

**We usually only see
these birds when
they are flying high
in the sky.**

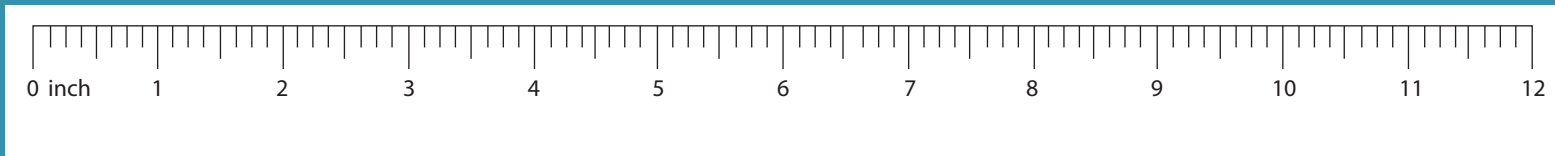
**Have you ever
wondered how big
these birds are?**





Today we are going to measure the **wingspan** of each of these birds.
When we measure, we are going to use the terms **inches** and **feet**.

1 INCH



1 FOOT

Wingspan is the measurement of the tip of one wing to the tip of the other.



Which bird do you think has the biggest wingspan?

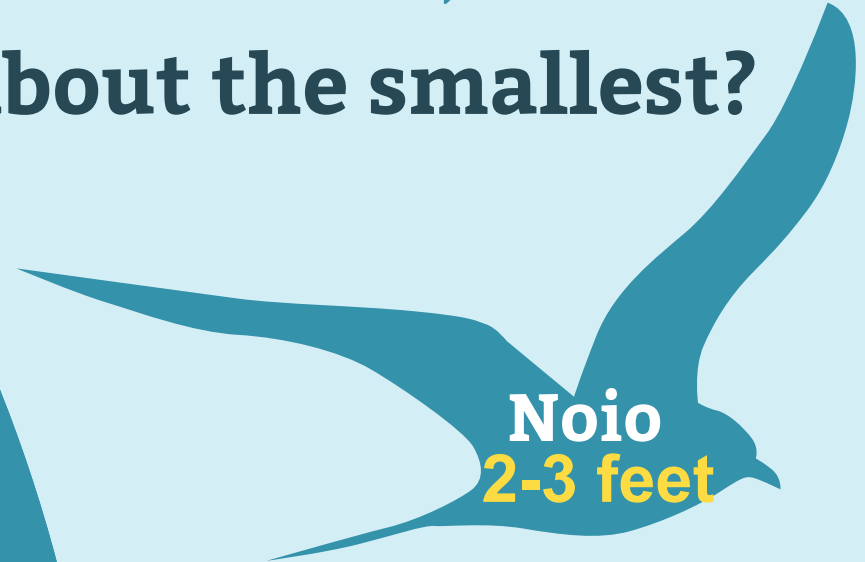


'Iwa
7-8 feet



Manuokū
2-3 feet

How about the smallest?



Noio
2-3 feet



What's your wingspan?

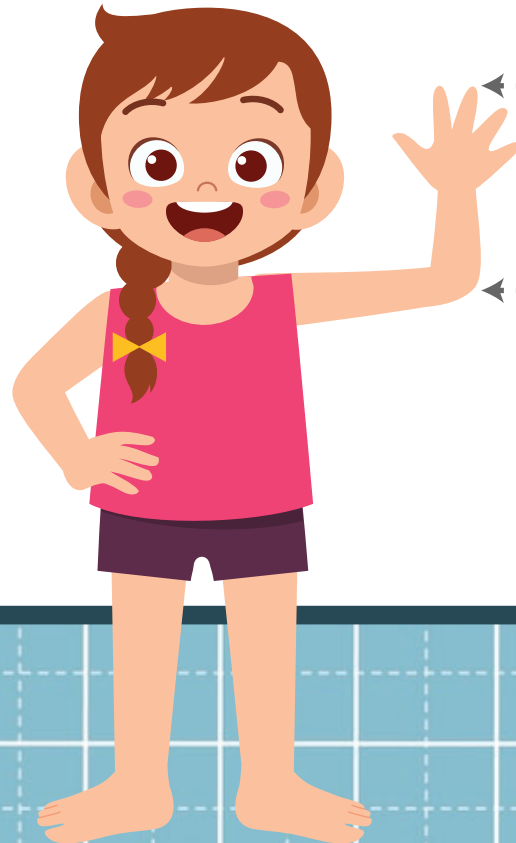
There are also **Hawaiian measurements** that we can use:

Ha`ilima

Iwilei

Muku

Anana



Ha`ilima is the measurement of length from **elbow** to the end of the **fingers**.

There are also **Hawaiian measurements** that we can use:

Ha`ilima

Iwilei

Muku

Anana



Iwilei is the measurement of length from collarbone to the tip of the middle finger with arm extended.

There are also **Hawaiian measurements** that we can use:

Ha`ilima

Iwilei

Muku

Anana



Muku is the measurement of length from fingertips of one hand to the elbow of the other arm, when both arms are extended to the side.

There are also **Hawaiian measurements** that we can use:

Ha`ilima

Iwilei

Muku

Anana



Anana is the measurement of length from tips of longest fingers, measured with arms extended on each side.



NEXT ACTIVITY:

`Olelo No`eau

Let's Go!

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ACTIVITY 3

ʻŌlelo Noʻeau

HAWAIIAN PROVERB

**'Au i ke kai me he
manu ala**

"Cross the sea like a bird."
To sail across the sea.



What did you learn about the seabirds in Hawai'i?



**`Iwa
(Great Frigatebird)**



**Noio
(Black Noddy)**



**Manukū
(White Tern)**

NEXT ACTIVITY:

Please respond to the `ōlelo no`eau with a drawing using your writing journal or ipad.

