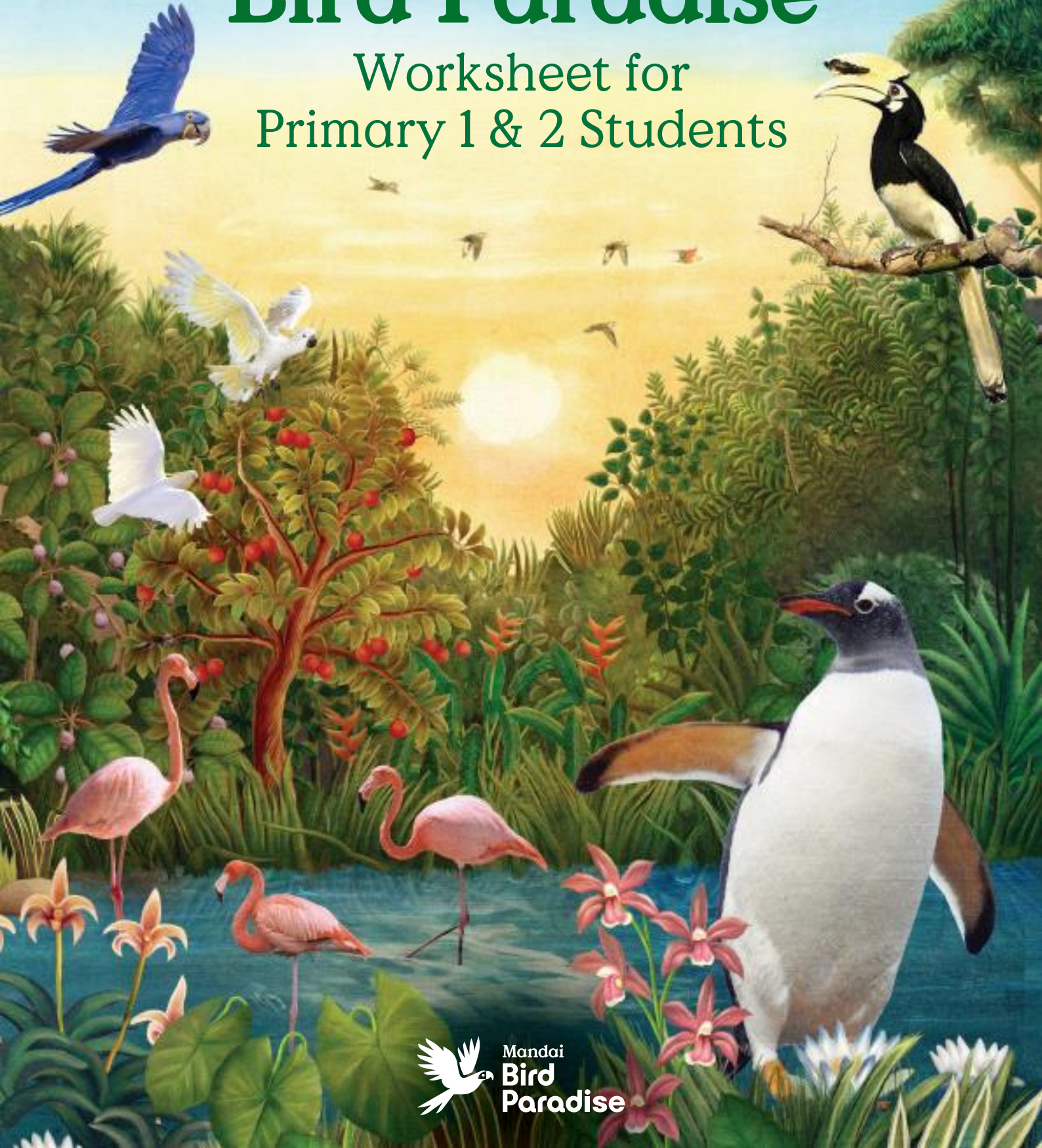


An Educators' Guide to Bird Paradise

Worksheet for
Primary 1 & 2 Students



Mandai
**Bird
Paradise**

Everybirdy, Let's Have Fun!

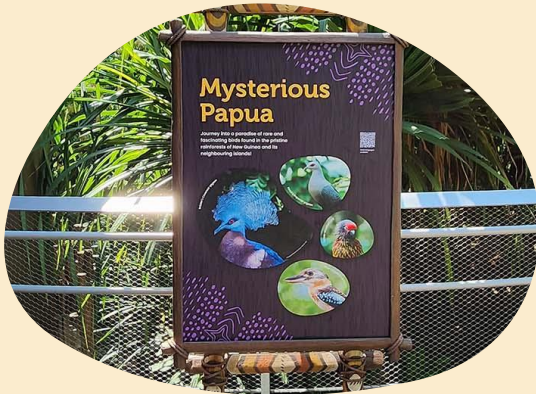
@



Penguin Cove



Australian Outback



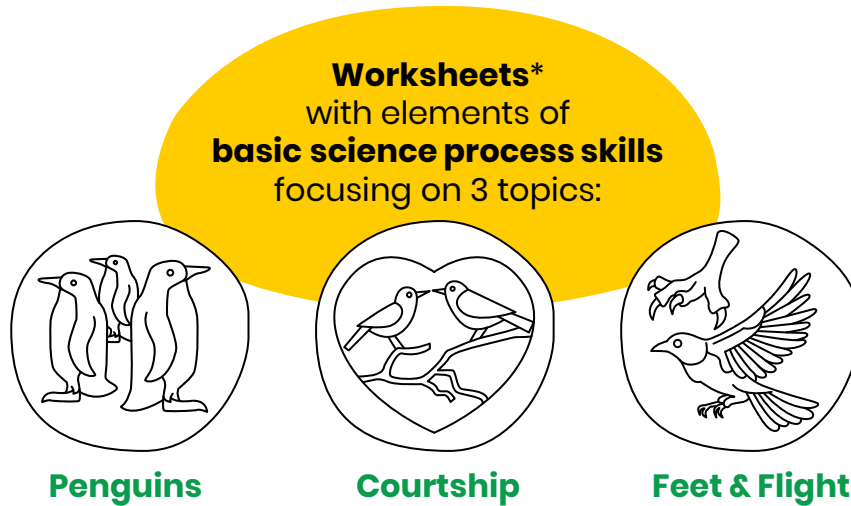
Mysterious Papua



Lory Loft

What's Inside?

Bird Paradise is a huge place.
We recommend that you focus on a section of Bird Paradise
for learning journeys. This guide features:



* with answer sheets

4 bingo sheets
for bird spotting at:



Penguin Cove



Australian Outback



Mysterious Papua



Lory Loft

Suggested Itinerary

- 1 Start from entrance
- 2 Penguin Cove (Level 1 & 2)
- 3 Penguin Cove (Level 3)
- 4 Australian Outback
- 5 Mysterious Papua
- 6 Courtship Discovery Hub
- 7 Lory Loft
- 8 Feet & Flight Discovery Hub
- 9 Shuttle back to entrance



Suggested
Duration:
120 mins



Entrance



Penguin Cove
(Level 1 & 2)



Penguin Cove
(Level 3)



Australian
Outback



Mysterious Papua



Courtship
Discovery Hub



Lory Loft



Feet & Flight
Discovery Hub



Shuttle back to
Entrance

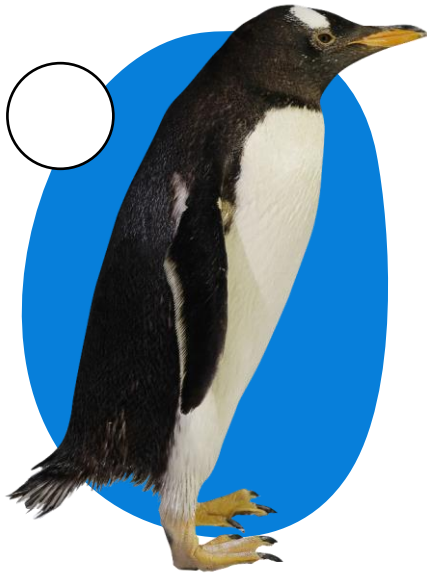
Penguin Cove

Complete this Bingo Sheet at **2** Penguin Cove (Level 1 & 2)

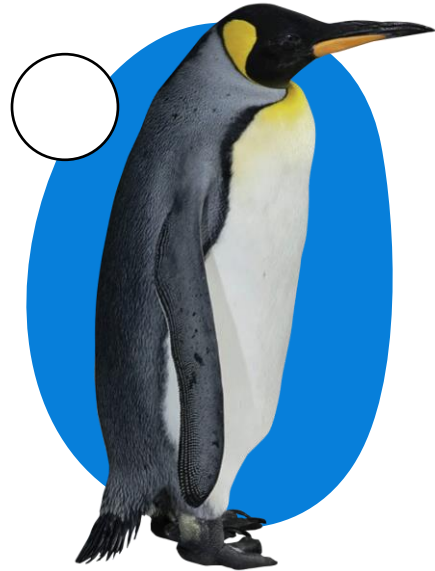
Skill

Observing

Tick if you spot these birds!



Gentoo Penguin



King Penguin



Northern Rockhopper Penguin



Humboldt Penguin



Other than penguins, look out for the **Inca terns**! Found in the cold waters of South America, you can recognize the Inca terns by their nice white moustache and bright red feet. They hunt for fish on water surfaces and also by plunge diving.

Penguins

Complete these activities at **2** Penguin Cove (Level 1 & 2)

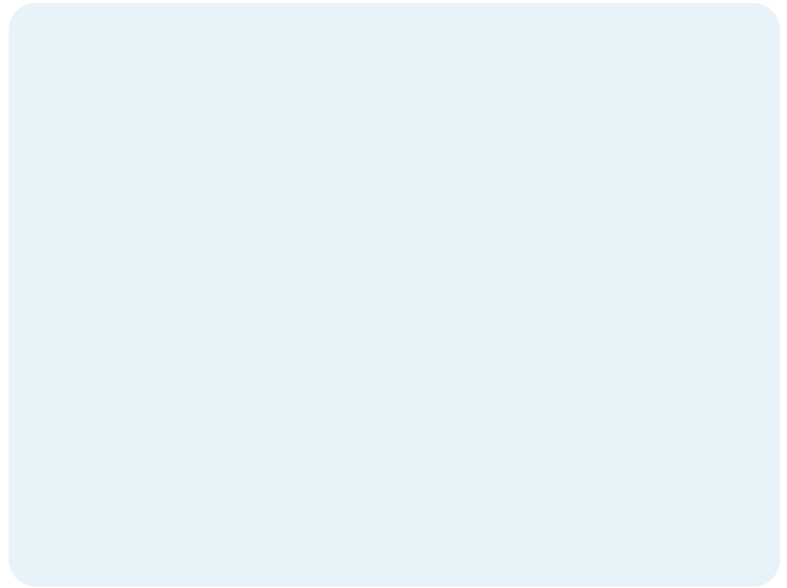
Skill Communicating

1. Who is that penguin?

Observe a penguin for 30 seconds.

Draw the penguin.

Get your buddy to guess which species of penguin you have drawn.



2. What are the penguin doing? **Circle** the actions.

Skill Observing

Flying

Hopping

Swimming

Eating

Resting

Nesting

Sleeping

Rolling

Digging

Waddling

3. What do you see in the exhibit? **Circle** what you see.

Skill Observing

Duck

Rock

Ice

Tree

Food

Grass

Nest

Fire

Water

Mud

What else do you spot in the exhibit? Write them down.

Penguins

Complete these activities at **2** Penguin Cove (Level 1 & 2)

4. Circle the correct answer

Hint: Find the signages for each penguin!

- a) **Gentoo penguins** are the fastest _____ bird, clocking speeds up to 36km/h.
waddling swimming flying hopping
- b) The **King Penguin** is the second _____ bird, after the Emperor Penguin. Kings are about 1 m tall.
tallest shortest fastest slowest
- c) The **Northern Rockhopper Penguin** has _____ crests that look like long eyebrows. They use their powerful legs to hop over rocks.
white grey green yellow

Complete these activities at **3** Penguin Cove (Level 3)

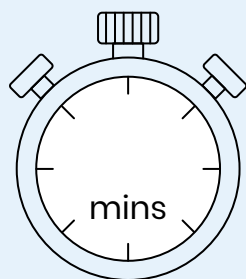
5. Fill in the blanks

Hint: Find the signages along the exhibit or on the walls.

Skill Measuring

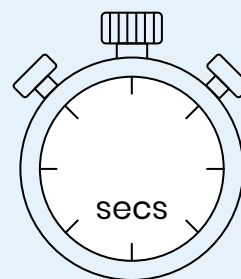
Penguins can hold their breath longer than we can. This allows them to dive depths for a long period of time to hunt for fish.

Emperor penguins can hold their breath for:



= 1932 seconds

I can hold my breath for:



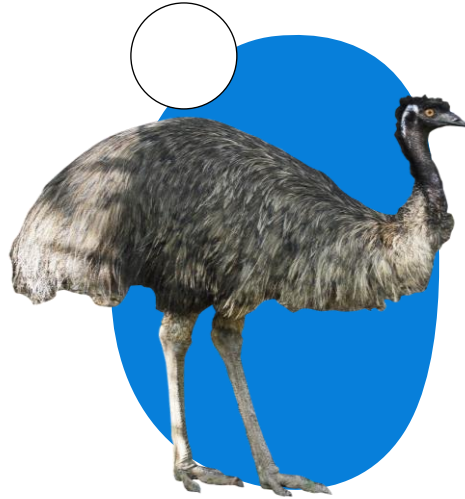
Australian Outback

Complete this bingo sheet at **4** Australian Outback

Skill **Observing** Tick if you spot these animals!



Tawny Frogmouth



Common Emu



Red-necked Wallaby



Major Mitchell's Cockatoo



Laughing Kookaburra



Magpie Goose



Masked Lapwing



Red-tailed Black-cockatoo



Scaly-breasted Lorikeet

Australian Outback

Complete these activities at **4** Australian Outback

1. What are the animals doing? Circle the actions.

Skill Observing

Flying

Hopping

Swimming

Eating

Resting

Nesting

Sleeping

Rolling

Digging

Calling

Skill Observing, Communicating, Measuring

2. Let's Draw!

Pick one animal and observe it for 5 seconds. Draw it out.

Get your buddy to find the animal you have drawn.

3. How many of such animals can you spot?

I can spot _____ of them.

4. Compare the size of this animal to an object.

This animal is as big as a

Mysterious Papua

Complete this bingo sheet at **5** **Mysterious Papua**

Skill

Observing

Tick if you spot these animals!



Southern Cassowary



Sclater's Crowned-pigeon



Yellow-streaked Lory



Pinon's Imperial-pigeon



**Northern Papuan
King-Parrot**



Palm Cockatoo



Nicobar Pigeon



Coconut Lorikeet



Pied Imperial-pigeon

Mysterious Papua

Complete these activities at **5** Mysterious Papua

1. Guess the bird

Skill Observing and Communicating

Look around the aviary and observe a bird that you are the most interested in.

a) Write down 5 words to describe the bird:

Find a buddy and take turns to describe the birds that both of you have chosen.

Can you guess which bird it is?

b) How are the birds similar? List down three **similarities** between the two birds.

1.

2.

3.

2. Flightless bird

Skill Communicating and Inferring

a) There is one bird species in this aviary that cannot fly. What is the name of this bird?

b) How is this bird different from birds that can fly? Write down one **difference**.

c) Observe the casque on the top of its head. What do you think the bird uses it for?

Hint: Find the signage for this bird

Courtship Discovery Hub

Complete these activities at **6** Courtship Discovery Hub

1. Fill in the blanks

Hint: Find the signages along the exhibit or on the walls

_____ birds put up courtship displays to advertise their stamina and good health.

These displays help female birds select a mate with best _____ to produce healthy offspring.

2. Match the birds

Skill Observing and Inferring

To attract mates, some birds are able to **transform their shape** to impress, some birds rely on their **construction skills**, and some birds engage in **thrilling dance performances**.

Watch the videos and match the correct bird to the courtship method displayed.



Bowerbird ☐

☐ Transform their shape



Manakin ☐

☐ Construction skill



Birds of Paradise ☐

☐ Dance performances

Lory Loft

Complete this bingo sheet at **7** Lory Loft

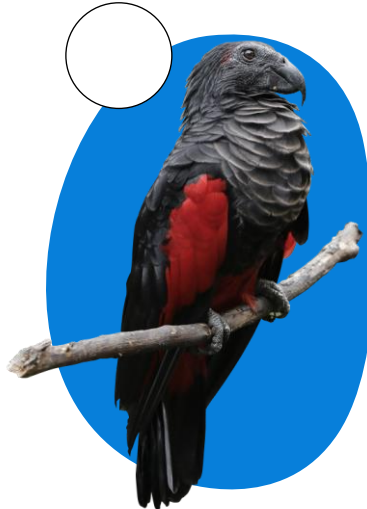
Skill

Observing

Tick if you spot these birds!



Northern Cassowary



Pesquet's Parrot



Victoria Crowned-pigeon



Red Lory



Yellow-bibbed Lory



Marigold Lorikeet



Red-billed Blue Magpie



Blue-eyed Cockatoo



Chattering Lory

Lory Loft

Complete these activities at **7** Lory Loft

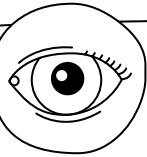
Mindfulness Activity: Sensing Nature

Skill

Observing, Comparing and Inferring

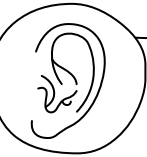
Find a comfortable spot. Now, try to name:

5 things you can see, **4** things you can hear, **3** things you can smell, **2** things you can touch and **1** thing you can taste.



Look closely. How are they similar? How are they different?

Bonus: Try to identify the birds that you have spotted using the signages around.



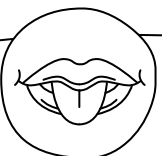
Can you draw a pattern to represent the sounds you hear?



Can you identify where/who the smell is coming from?



Is the object hard or soft?
Hot or cold? Describe them here.



What might you want to taste?

Feet & Flight Discovery Hub

Complete these activities at **8** Feet (Level 1) & Flight (Level 2) Discovery Hub

1. Fill in the blanks

Hint: Find the signages along walls of Flight Hub (Level 2)

a) The wings of modern aircraft imitate the shape of _____



Try it out!

Can you imitate the shape?

b) _____ have the fastest wingbeats of any bird, up to 200 per second.



Try it out!

How many times can you flap your arms in 1 second?

2. Complete the feet

Skill

Observing and Inferring

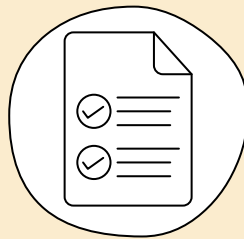
Humans have five toes pointing forwards on each foot, but bird toes can come in different patterns. Visit Feet Hub (Level 1) and fill in the space below with the correct toe pattern.

Human Foot

Foot for perching
on branches

Webbed foot
for swimming

Answer Sheet



Answer Sheet

Penguin Cove

[Page 7]

Q4:

- a) swimming
- b) tallest
- c) yellow

Q5: Emperor penguins can hold their breath for a record duration of 32.2mins

Mysterious Papua

[Page 11]

Q1: Suggested Answers

- a) Colour, size, shape of beak, shape of feet, bird body parts, action (sleeping, eating etc)
- b) Same as above

Q2:

- a) Southern cassowary
- b)

Southern cassowary	Flying birds
Heavy, Strong thick legs, Big claws, Long thin feathers	Light, Thin legs, Smaller claws, Broad feathers

- c) Any of the following:
 - The cassowary uses its casque like a helmet to push through forest undergrowth.
 - Cassowaries use their casques to amplify calls, especially in dense forests.
 - The casque can be used to regulate its body temperature, radiating or conserving heat when needed.

Answer Sheet

Courtship Discovery Hub

[Page 12]

Q1:

Male genes

Q2:



Bowerbird



Manakin



Birds of Paradise

Transform their shape

Construction skill

Dance performances

Lory Loft

[Page 14]

Suggested Answers:



Comparison of birds, plants, non-living things etc



Drawing of bird calls, wind, voices etc



Smell of rain, soil, food, poop etc



Texture/temperature of metal railing, foot path, signages, leaves etc



Imagine the taste of the fruits, nectar, leaves etc

Answer Sheet

Feet & Flight Discovery Hub [Page 12]

Q1:

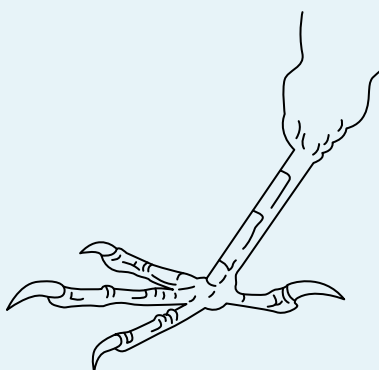
- a) gliding birds' wings
- b) hummingbirds

Q2:

Human Foot



**Foot for perching
on branches**



**Webbed foot
for swimming**

