NEW EDITION

Based on the Basic Education Curriculum B.E. 2551 (Revised Edition B.E. 2560)

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CONTENTS



My Body

- What Are the Parts of My Body?
- What Can the Different Parts of My Body Do?
- How Do I Control the Different Parts of My Body?
- How Do I Protect the Different Parts of My Body?
- How Do I Keep My Body Clean?



Animals

- What Are the Parts of an Animal?
- How Do We Group Animals?



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Habitats

- Where Do Animals and Plants Live?
- What Happens When There Are Changes to Habitats?





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- What Are the Different Types of Materials?
- What Are the Properties of Materials?
- How Do We Group Materials?
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- What Are Some Properties of Paper?
- What Are Some Properties of Metal?
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- What Are Some Properties of Plastic?
- What Are Some Properties of Rubber?
- What Are Some Properties of Fabric?
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- How Do We Choose Materials for an Object?

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- Where Do Sounds Come From?
- How Is a Sound Made?
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What's in the Sky?

- What Objects Do We See in the Daytime Sky?
 - How Does the Sun Move Across the Sky?
- What Objects Do We See in the Night Sky?
- Why Do We Not See Most Stars During the Day?



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Scan this for Learners' Glossary in Thai! 84

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This series covers the learning objectives of the **Basic Education Curriculum B.E. 2551** (**Revised Edition B.E. 2560**) in Thailand. The following table shows how the chapters in this book are aligned with the strands.

Strand 1		Standards				
Strand 1.1		Gather information to identify the names of plants and animals living in each habitat.				
		Explain proper living conditions for the animals living in the area.				
		Gather evidence to identify each part of the human body, animals and plants, and describe their collaborative functions to perform activities.				
Strand 1.2	2.	Recognise the importance of different parts of the body by taking care of the various parts and keeping clean.				
Strand 2		Standards				
		Gather evidence to explain properties of materials used to make an object which can be made of one or more materials.				
Strand 2.1	2.	Identify types of materials and group them by their properties.				
Strand 2.3	1	Gather evidence to explain the origins and propagation of sound.				
Strand 3		Standards				
	1.	Gather information to identify stars appearing in the sky during the night and day.				
Strand 3.1	2.	Gather evidence to explain why most of the stars cannot be observed during the day.				
Strand 3.2	1.	Observe and describe the external appearances of rocks.				

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Videntify plants and animals in different environments give examples of plants and animals in different environments describe how plants and animals depend on each other describe how changes in the environment will affect the plants and animals living there

What Happens When There Are Changes to Habitats?

Plants and animals live in **environments** that **suit** them.

Frogs need to keep their skin wet. They lay eggs in water. Where can you find them?



Fish get the air they need from the water. Without water, they will die.



When it does not rain for a long time, ponds dry up. Plants and animals that live there die.





Environment: everything that is around a living thing that affects its growth and health Suit: to provide what is needed or wanted

Some environments change with the seasons.

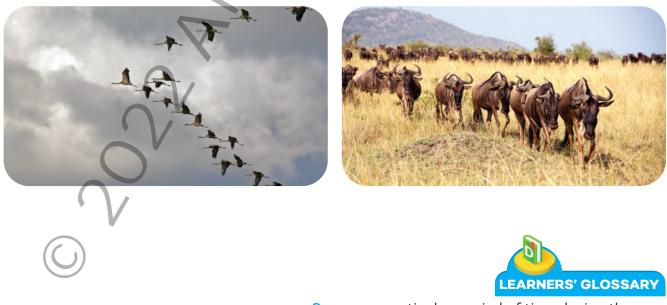




autumn

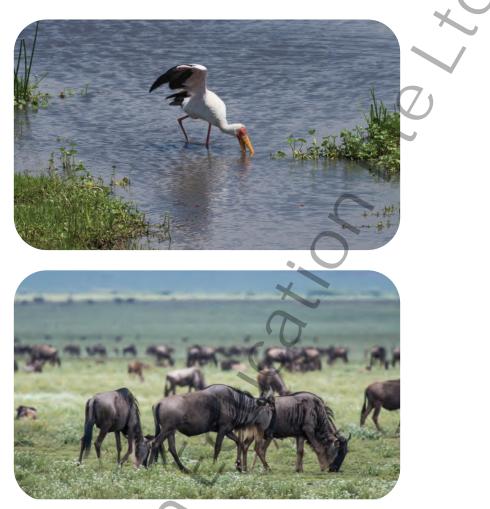
winter

When winter comes, it gets cold and food is hard to find. Some animals may leave the habitat to find another place where it is warmer or where they can find food.



Season: a particular period of time during the year

They return when the **weather** in the environment gets warmer.

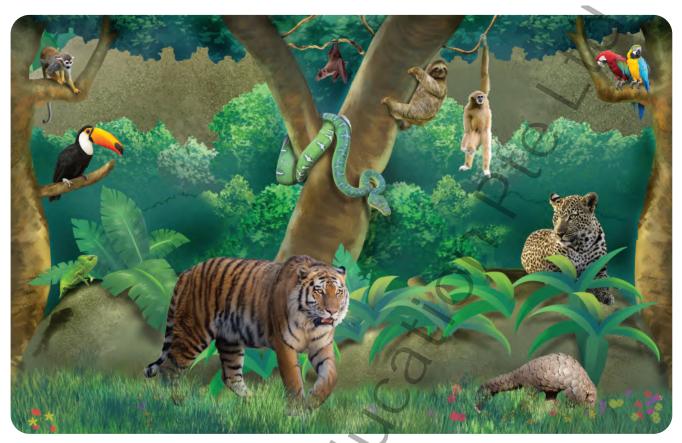


Some trees lose their leaves during winter. This helps the trees **survive** better through the cold and dry season.





Weather: the state of the air at a particular place and time. We use sunshine, rain, wind and clouds to describe the weather. Survive: to stay alive Trees are habitats for many plants and animals.



The cutting down of trees affects plants and animals that live there.



The cutting down of trees affects the animals that use the trees for food or shelter.
 Many of these living things cannot survive when they lose their habitats.





Affect: to act on and cause a change



Deforestation is the cutting down of trees. Usually, trees are cut to get wood, or to clear space for growing crops. As a result, many animals and plants lose their homes.

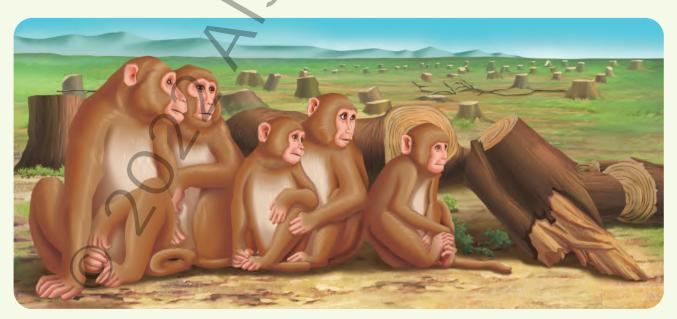




- A habitat is a place where a living thing goes to find food.
- A living thing needs air, water, and food to stay alive.
- The habitat of a bee is in the garden.
- A millipede lives deep in the soil. **Go To WB Exercise 1**

STEM Activity

The trees in a forest have been cut down. Some monkeys have lost their home. Make a model of a crate to move them to another forest. Consider the habitat of the monkeys and make the crate comfortable for their ride.



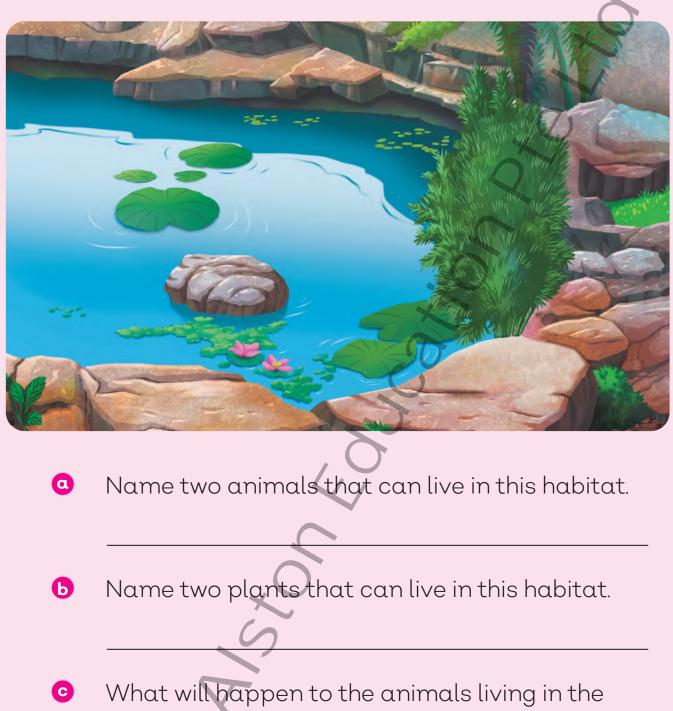
Here are some materials you may need.







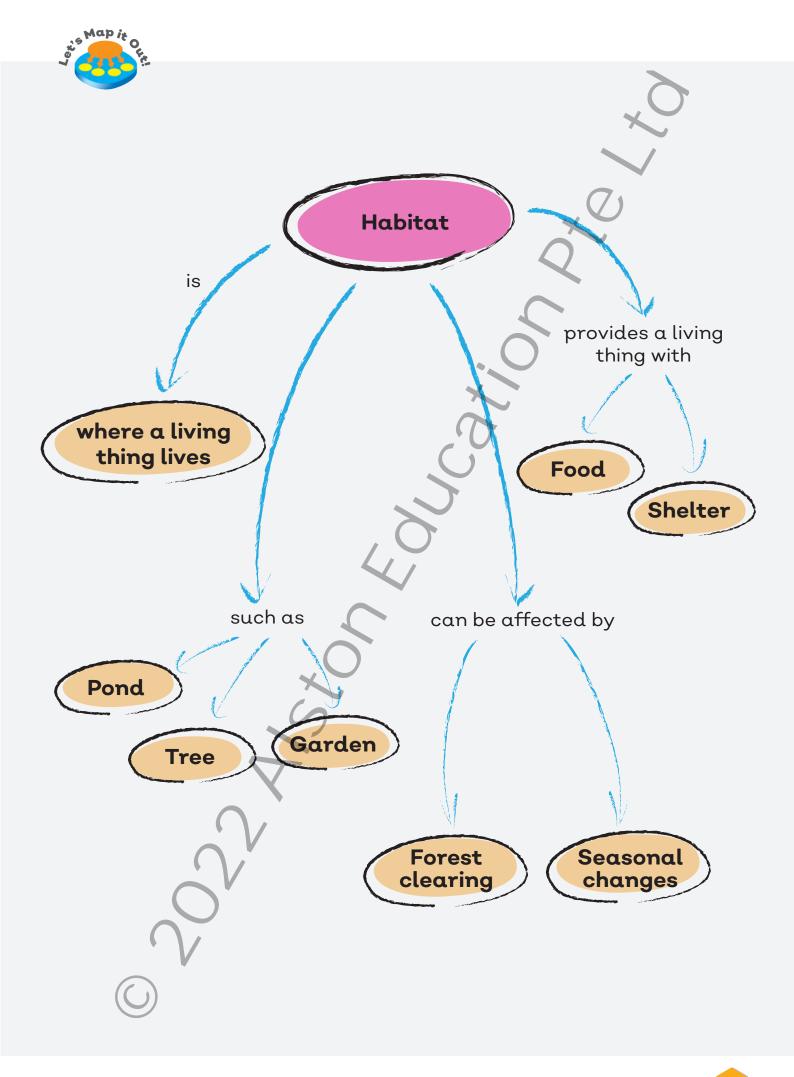




water if the water in this habitat dries up? Why?

Some animals will _____ because they need ______ from water.

Go To WB Mastery Practice 🍊









Living things

- Animals and plants are living things
- They need air, water and food to stay alive

Habitats

• A habitat is a place where an animal or plant lives, and get what it needs to stay alive

Garden

 Many animals and plants are found in the garden habitat

Up on a tree

francipani tree

hibiscus

Mango tree provides food and shelter to animals such as squirrels and monkeys

erfly

papaya tree

mango tree

heliconia

snail

bee

grasshopper

ladybird

In the soil

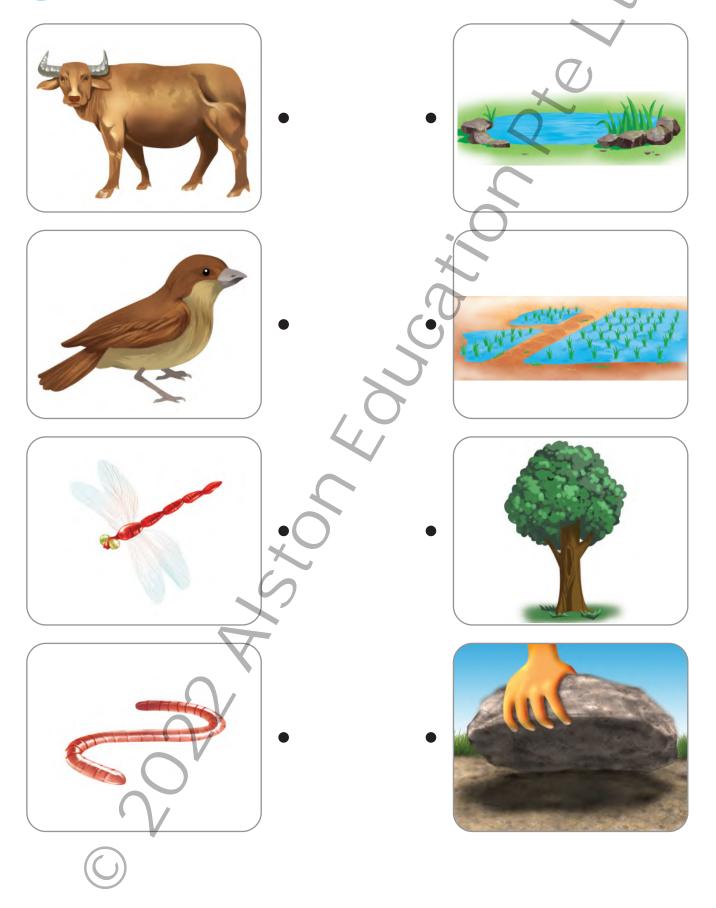


 Under stones
 Centipedes and millipedes live in damp, dark places

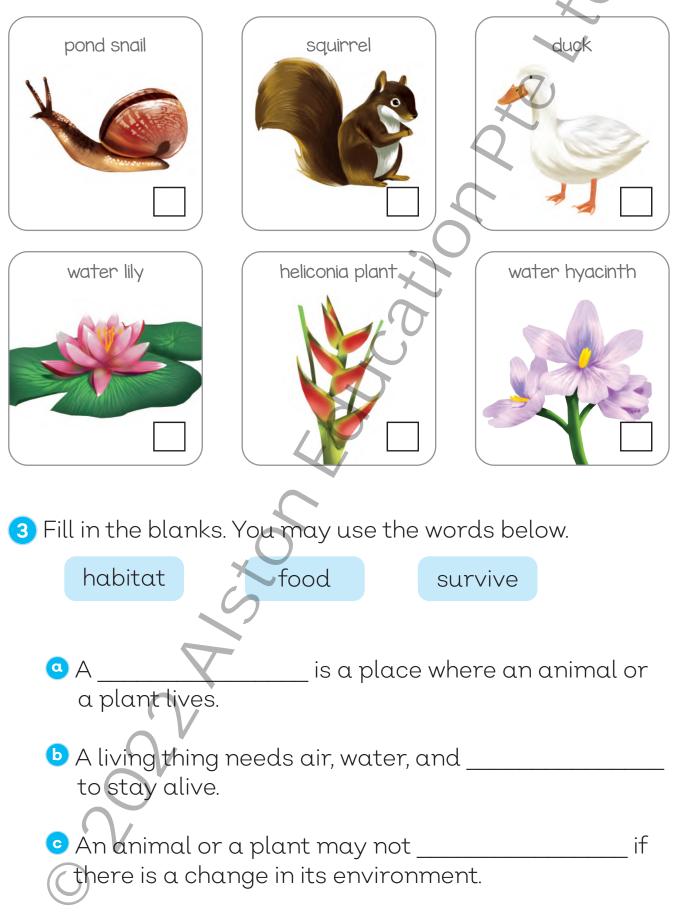
- Ants and earthworms live in the soil
- Earthworms make soil more suitable for plants to grow

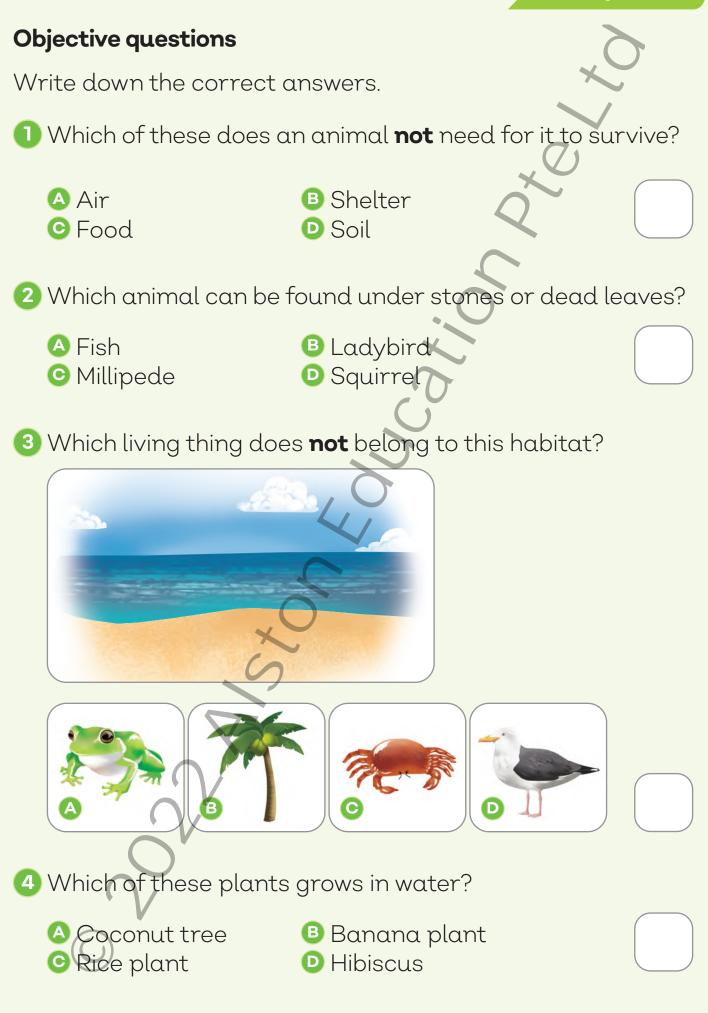
1 Plants and Animals in Different Habitats

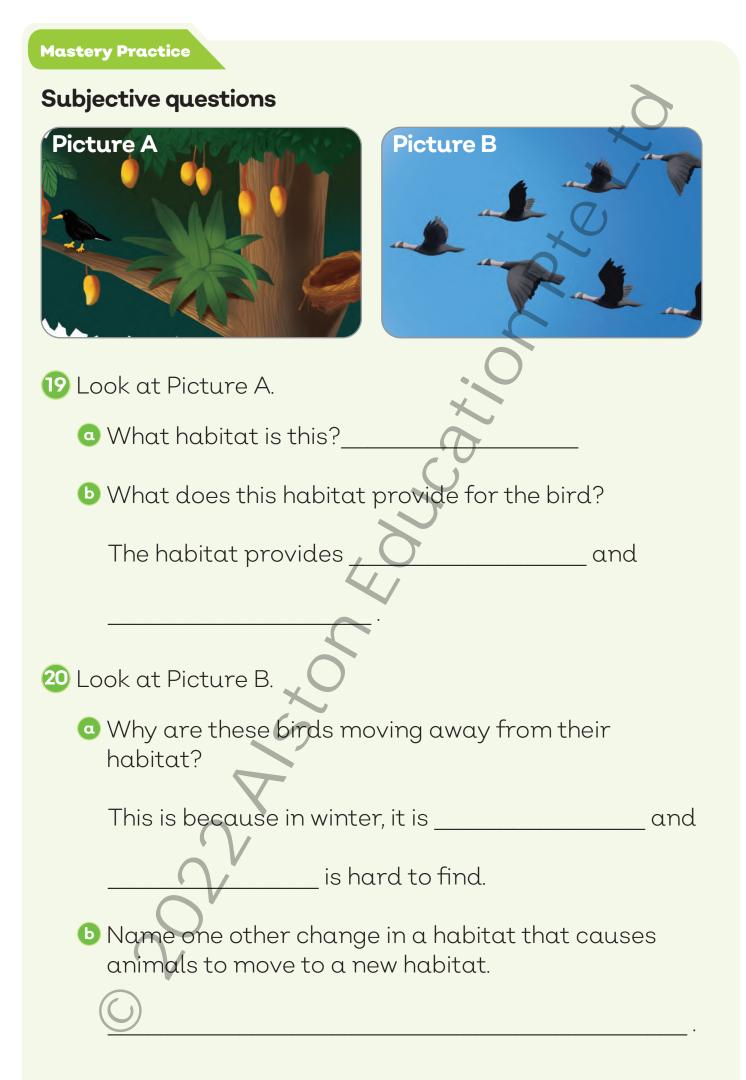
 $oldsymbol{1}$ Draw a line to match the animal to its habitat. \swarrow



2 Tick the animals and plants that can be found in a pond habitat.







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2) A fisherman catches a fish and places it in an empty pail. After a while, the fish died.

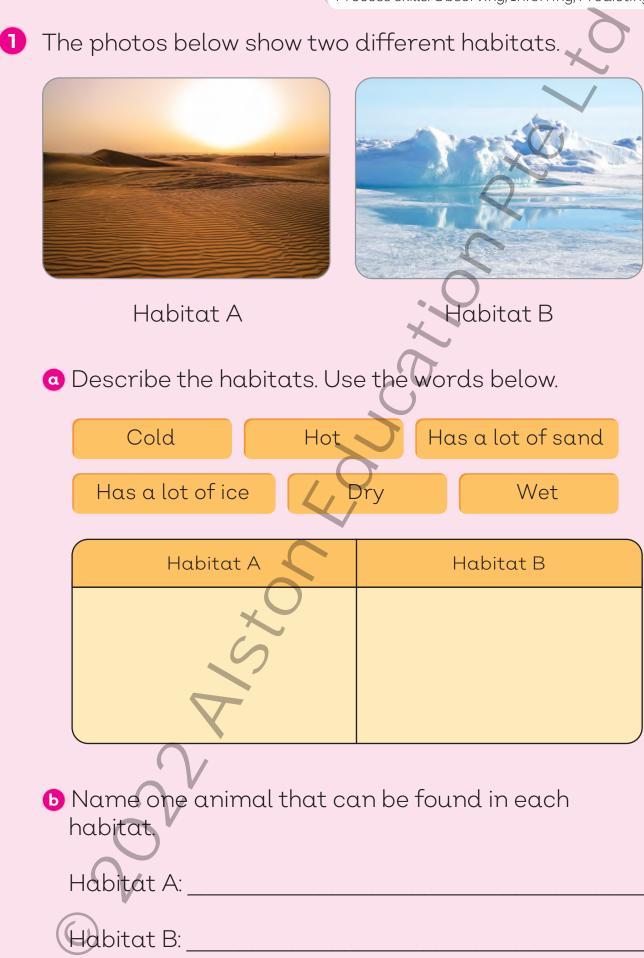
What habitat does a fish live in?

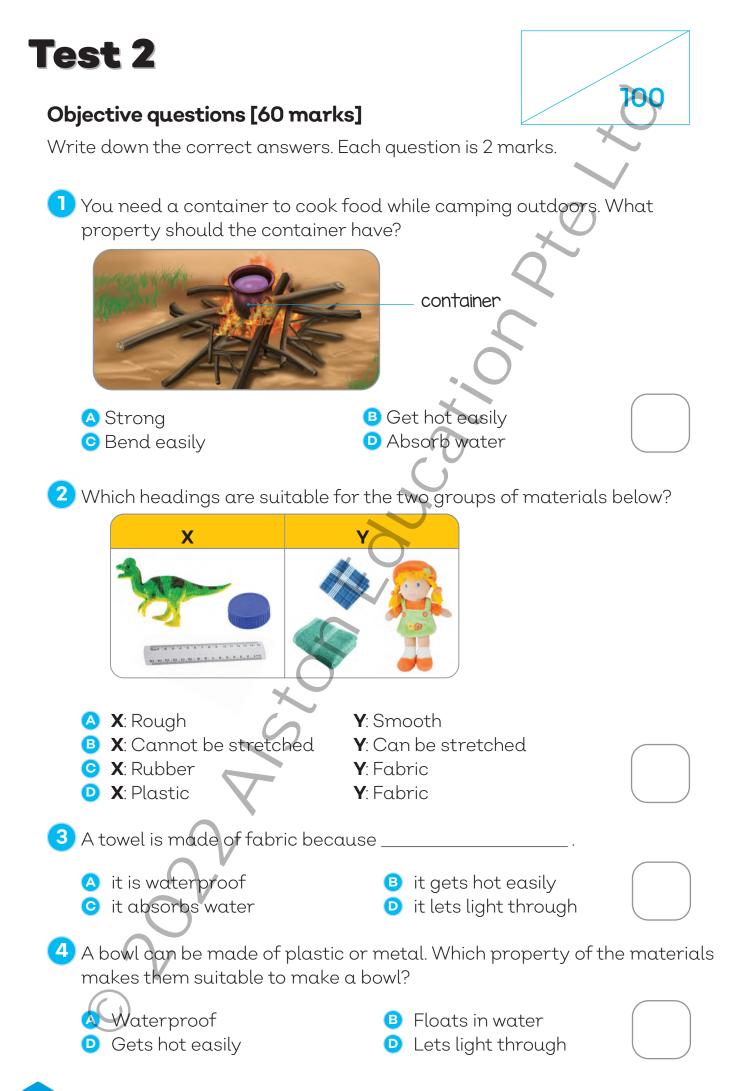
- Where does the fish get its air from? The fish gets its air from the lives in.
- Why did the fish die after a few minutes in the pail? Tick.
 - The fish cannot swim in the pail.
 - The fish was out of water. So, it cannot get air to make food.
 - The fish was out of water. So, it could not get enough air to live.
- 22 The photos below show two animals.



What are two differences between these two animals? Use these helping words to fill in the blanks.

swims	flies	legs	wings	eyes	skin		
	frog		in wa	ter while t	he		
dragonfly in air.							
The frog moves with its while the							
dragonfly moves with its							
Which habitat do these two animals live in?							





Subjective questions [40 marks] Write down the correct answers. 31 We use the object shown below when we swim. Part B Part A What properties should the material used to make Part A have? Circle. [2] Waterproof Can be stretched easily Lets light through b What properties should the material used to make Part B have? Circle. [2] Waterproof Can be stretched easily Lets light through O Name the materials suitable to make Part A and Part B. Fill in the blanks above. [2] 32 The picture shows a shelter. Material What properties must X Material X have? [2] and It b What could Material X be? []] 33 💁 How can Ning make a louder sound with the gong? [7] She can b Can Chan hear the sound? Why? [2]

36 Does sound get louder or softer as you walk towards a sound source?
The sound gets ______ as I walk closer to the sound source .
37 The picture below shows the Moon.
a Draw two other possible shapes of the Moon. [4]

b Ning says that the Moon gives off light since it is very bright at night. Is Ning correct? Why? Circle.

Ning is (correct / not correct). The Moon appears

bright because (it gives off light / light from the Sun shines on the Moon and bounces off).

[2]

[2]

38 What is one similarity between a star and the Moon?	[2]
Both a star and the Moon can be at	

39 What is one difference between a star and the Moon? [2] The stars _____ light but the Moon does

not.

40 Ari says, "The Sun is bigger than the other stars."

Jim says Ari is wrong. Why is Ari wrong?

The Sun looks bigger than the other stars because it is ______ _____ to us than the other stars.