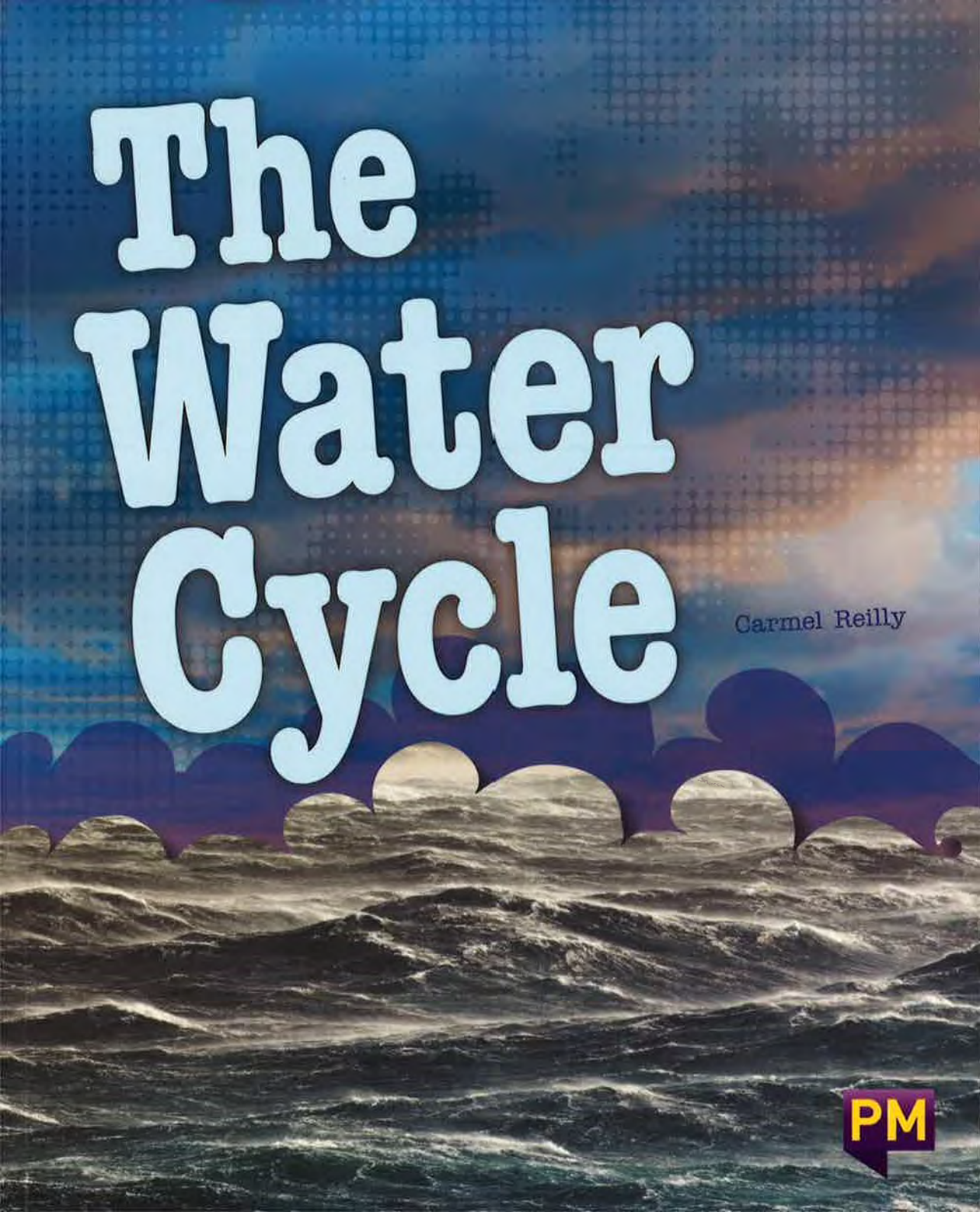

The Water Cycle
Carmel Reilly
PM

For teachers' inspection ONLY

The Water Cycle

Level 26 **Curriculum Areas** Science; Sustainability
Running Words 1837 **Text Types** Information Report (Informative) pages 2–19
Exposition (Persuasive) pages 20–30

Retelling to encourage critical thinking about the content

Ask each student to retell the information report and exposition in his or her own words. Record the retellings for further discussion and reflection.

Think and Talk About …

Fact boxes in the book encourage each student to explore the statements further and to share the information with others.

Questions to reinforce meaning and stimulate discussion

Literal

1 Why is the water cycle extremely important to life on Earth?
2 What does water vapour resemble when it floats off a large surface?

Inferential

3 What happens to water when rivers meet the sea?
4 Is all the water in water vapour safe to drink? Why or why not?
5 Why are cumulus clouds seen below cirrus clouds?
6 Why do places near the equator have a lot of rain all year round?
7 How could water be stored in large desert areas?

Applied Knowledge

8 What would the water quality be like if water has been underground for thousands of years?
9 What would happen if all the ice in the Arctic and Antarctic melted?

Why We Need a Water Tank at School

Literal

1 What is most water at Silverton School used for?

Inferential

2 Why did the teachers ask the students about how they could improve their school?

Applied Knowledge

3 How would the students involve the community in fundraising?

Vocabulary

Replace the adjective 'concerned' in this sentence:
Many people were concerned that water from the school roof was dirty.

Links with other PM Guided Reading Books and Cards

Level 25	Book	Information Report/Exposition	*The Arctic Circle*
Level 26	Book	Information Report/Response	*The Everglades*

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The Water Cycle

Carmel Reilly
Illustrations by Rob Mancini

Contents

The Water Cycle 2
- Recycled Water 2
- Water Stored on Earth 4
- Evaporation 6
- Condensation 8
- Rain, Hail, Sleet and Snow 10
- Where Does Rainwater Fall on Earth? 12
- Stored Water 14
- Saving Water 18
- Life and the Water Cycle 19

Why We Need a Water Tank at School 20
Glossary 31
Index 32

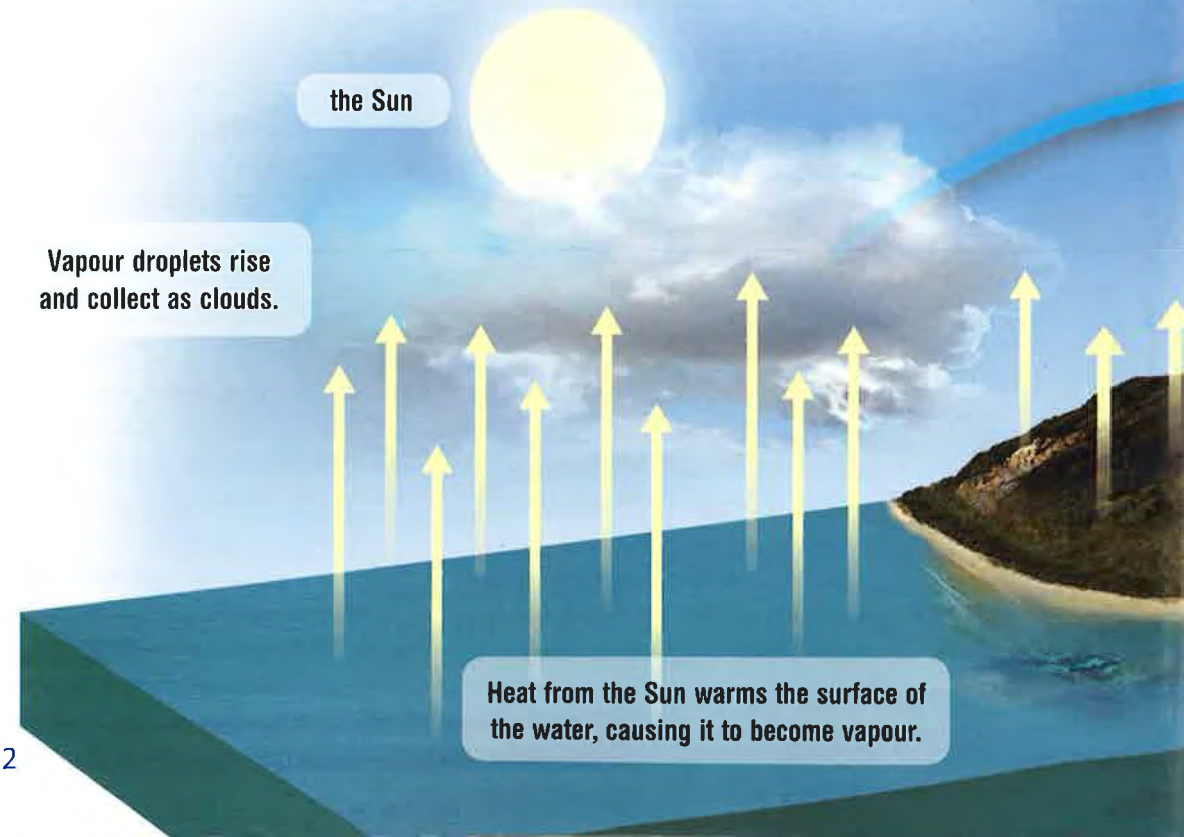
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The Water Cycle

Recycled Water

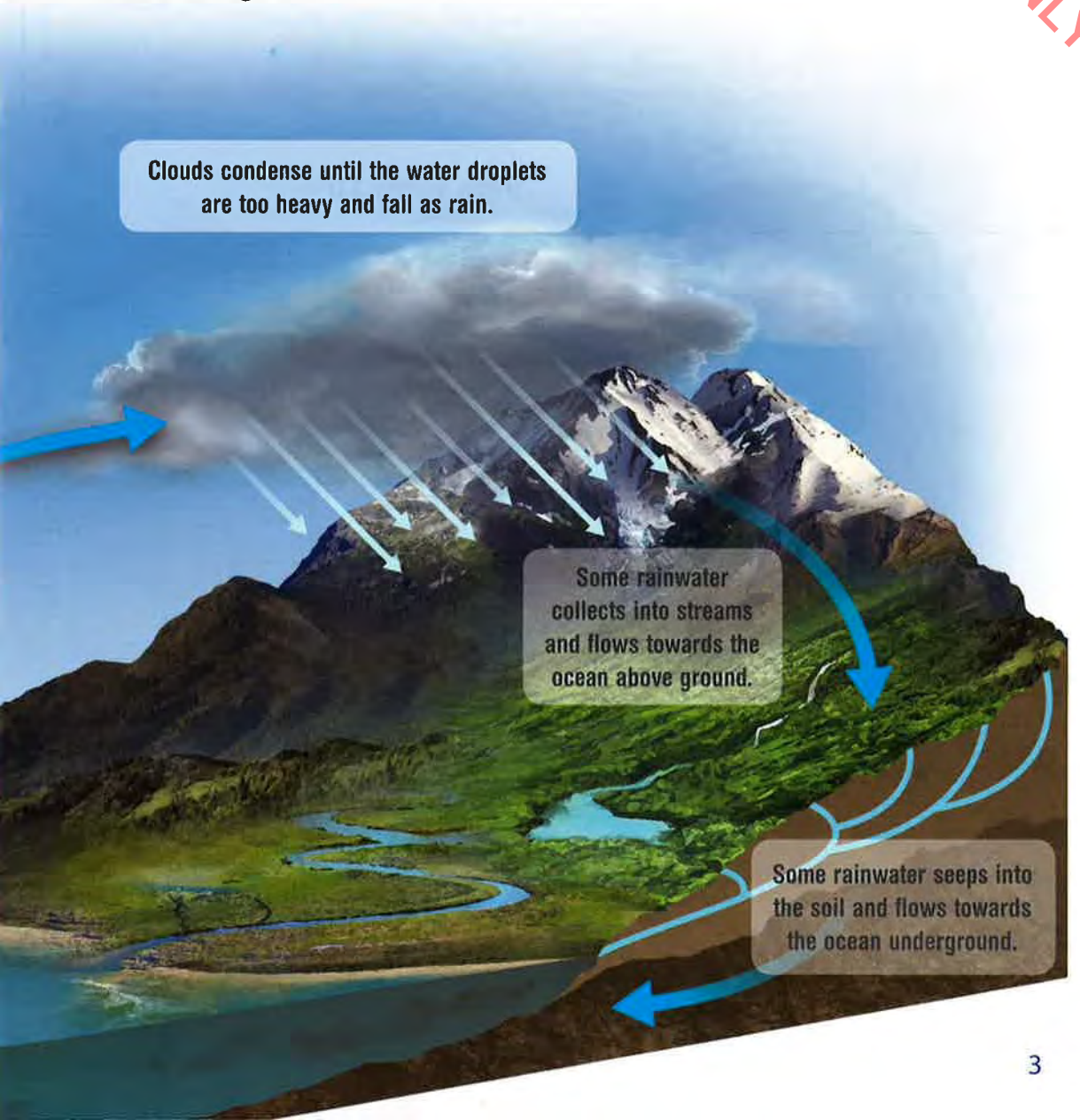
Water on Earth is always moving. It moves along rivers and through oceans. It rises into the air as steam, or **vapour**. Then it falls back to the ground again as rain. This endless movement is called the water cycle.

The water cycle is extremely important to life on Earth. Plants, animals and people need water to survive. The water cycle helps spread water evenly around the planet. It also helps to keep water clean and fresh.



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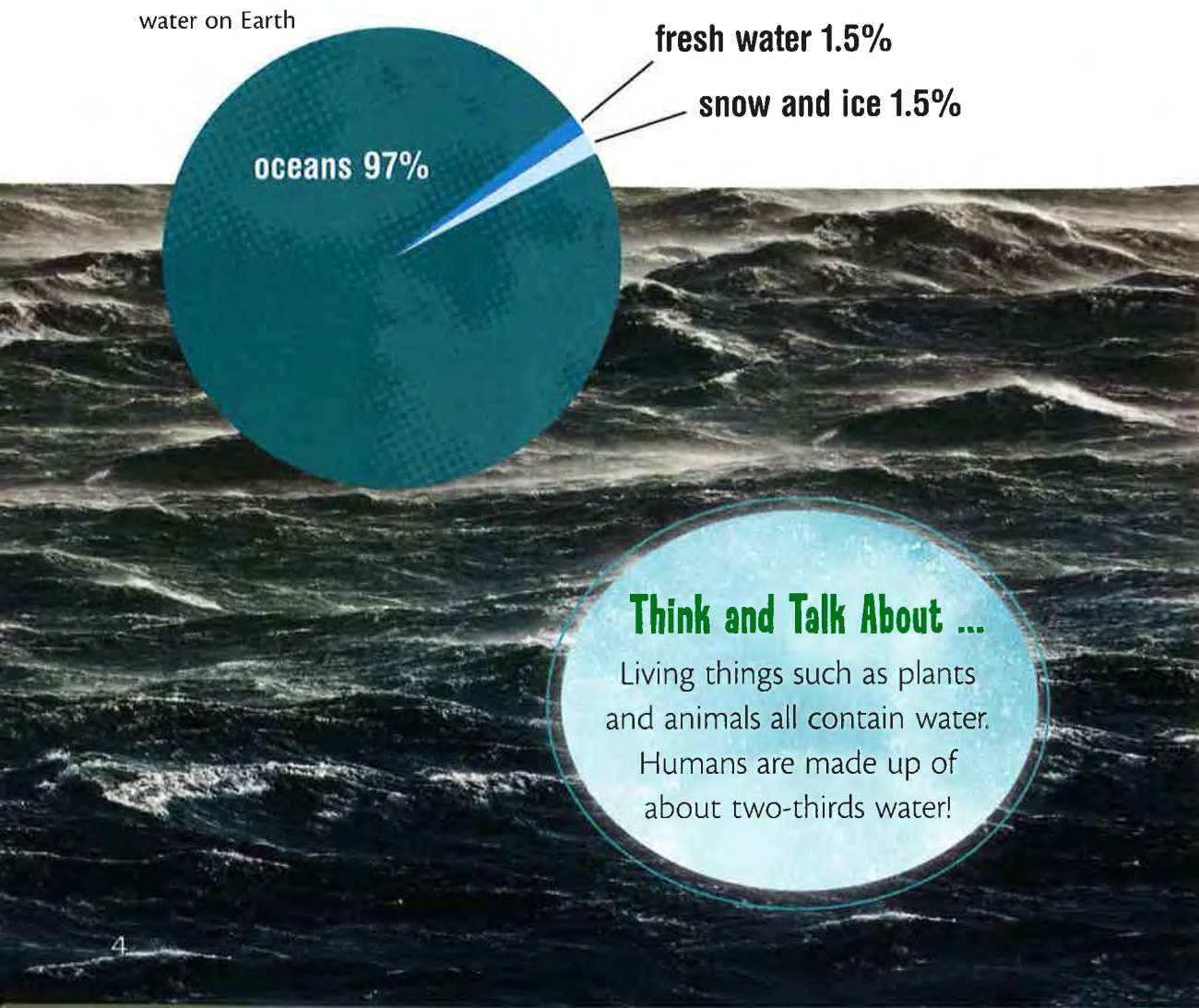
The amount of water on Earth never changes. The same water that was on the planet during the time of the dinosaurs is still here today. The water cycle recycles Earth's water and allows it to be used over and over again.



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Water Stored on Earth

Most of Earth's water is found in the oceans. Some water is stored as snow and ice. Other water is stored in lakes, rivers and swamps. A lot of water also soaks through the soil. It is then stored underground between layers of rock or sand.



Think and Talk About ...

Living things such as plants and animals all contain water. Humans are made up of about two-thirds water!

Salty or Fresh Water

Almost all of the water on Earth is **saline**. All ocean water is saline.

Only a very small amount of all the water on the planet is **fresh water**. Fresh water is water that does not contain salt. People, and animals that live on land, cannot drink saline water. They need fresh water to survive. Plants that grow on land need fresh water, too.

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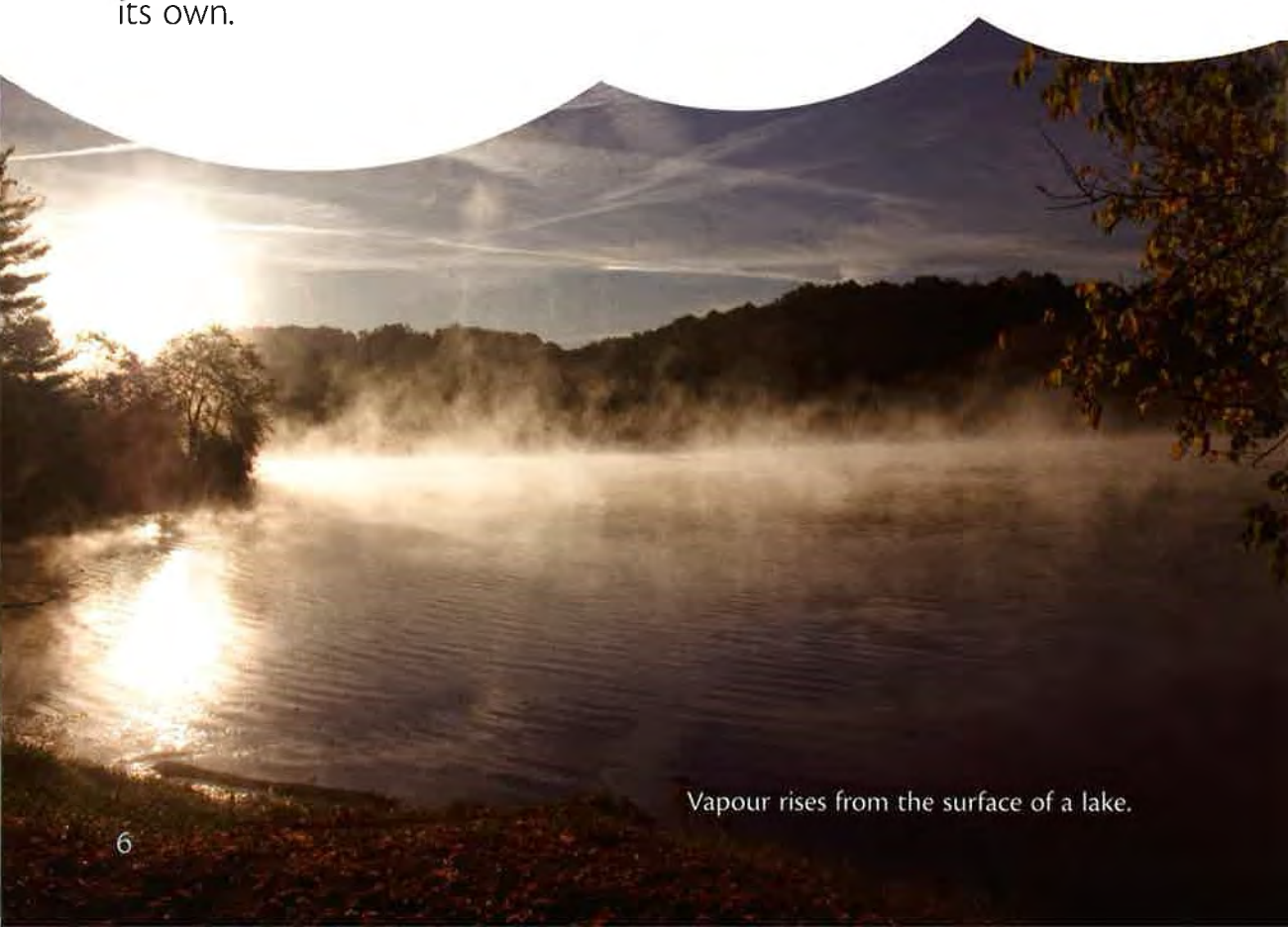


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Evaporation

Water is not always a liquid. When water is frozen, it turns into solid ice. When water is heated, it turns into vapour. The change from liquid to vapour is called **evaporation**.

Evaporation occurs when radiation from the Sun heats the surface of the water, causing some water molecules to separate from the others. These are light enough to rise into the air as tiny droplets of water, or vapour. The drops are so light that they float high up into the atmosphere. They are so tiny that a single drop cannot be seen on its own.

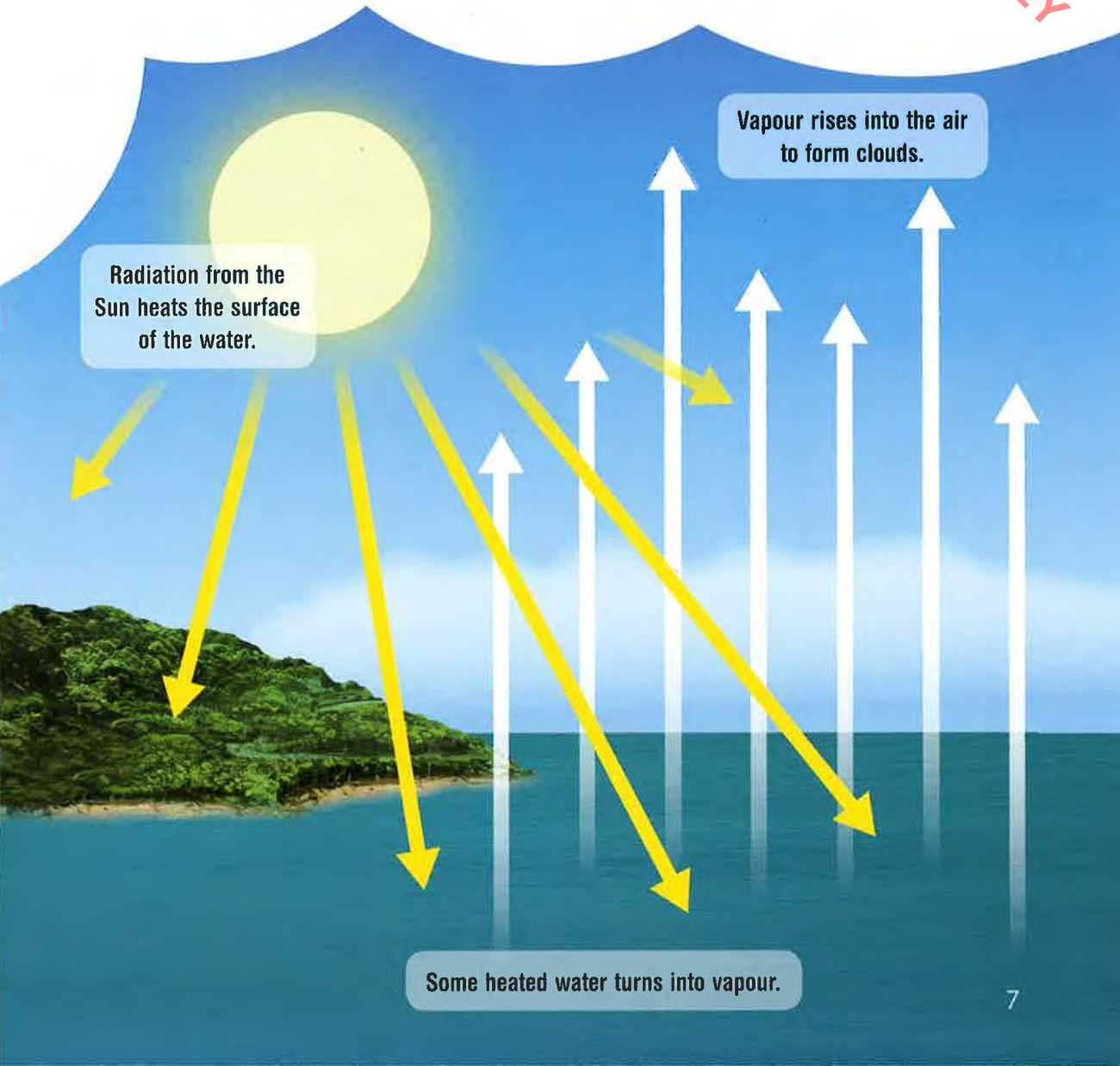


Vapour rises from the surface of a lake.

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Keeping Water Clean

Evaporation helps to keep water clean. When water turns into vapour, any salt or dirt in that water is left behind. The vapour is made up of only pure water.



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Water on Earth is always moving through the water cycle. It is heated by the Sun, rises as vapour to form clouds, falls as rain and other kinds of precipitation, and collects into rivers, streams, lakes, oceans and in the ground.

Some water is stored by humans, and some water is stored as ice in very cold places. The water cycle means that everywhere on Earth gets at least a little water.

15
16
17
18
19
20
21
22
23
24
25
PM Level 26
27
28
29
30

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