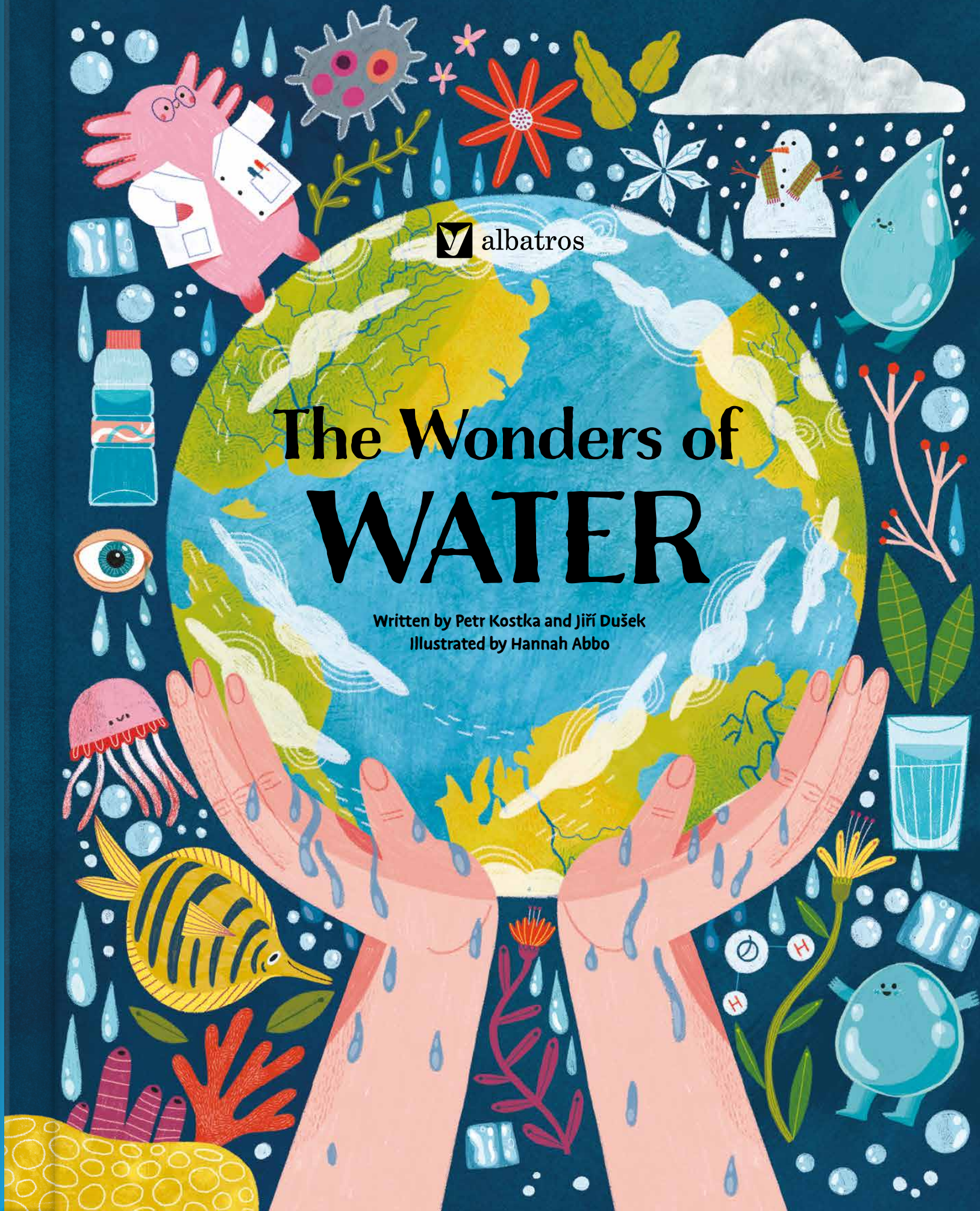




albatros

The Wonders of WATER

Written by Petr Kostka and Jiří Dušek
Illustrated by Hannah Abbo



Water is fun

TELL THEM THAT WATER IS JUST WONDERFUL!

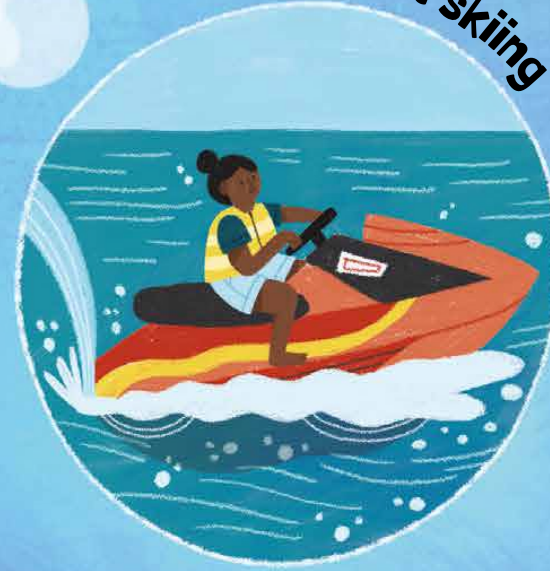
swimming



water balloons



jet-skiing



flyboarding

paddleboarding



kayaking



rafting



water polo



diving



water skiing



splashing

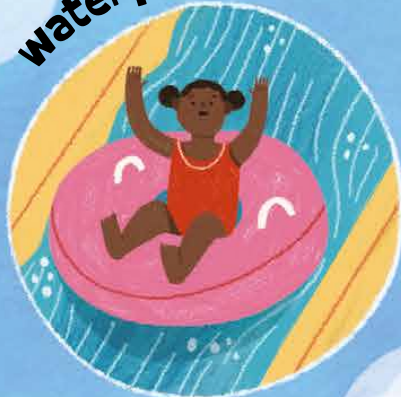


YES! IT'S TREMENDOUS FUN. LOOK WHAT WE CAN DO WITH WATER!

water fights



waterparks



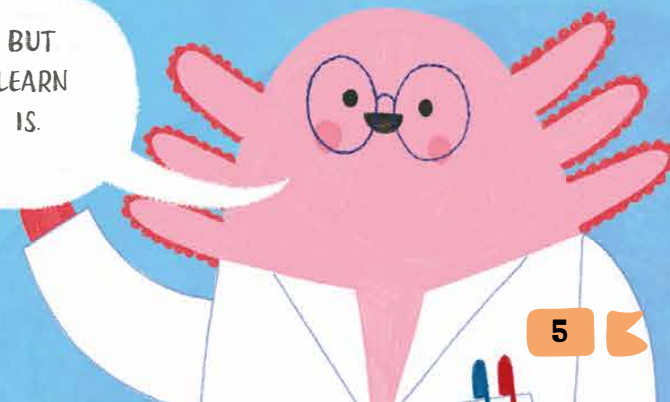
water slides



surfing



WATER ACTIVITIES ARE A BLAST, BUT IT CAN BE JUST AS EXCITING TO LEARN ABOUT WHAT WATER ACTUALLY IS. SO LET'S GET STARTED!



Water in the Solar System

Even with a small telescope, you can see the bright polar caps on Mars—they also contain frozen water.

Mars

Earth

Moon

Water on the Moon

Water is hidden at the bottom of some craters around the north and south poles of the Moon.

Mercury

Venus

OUR SOLAR SYSTEM HAS A TON OF WATER IN THE FORM OF ICE THAT'S ALWAYS FROZEN.

Europa

Jupiter

Oceans at the end of the world

Even more intriguing is Europa, a moon of Jupiter. Its surface is covered in ice, but beneath it lies an ocean up to 60 miles deep—meaning Europa may have several times more water than Earth. Could primitive life exist in its hidden ocean? It's hard to say, but one thing is certain—liquid water is essential for life as we know it.

Saturn

Enceladus

However, liquid water can also be hidden beneath an icy shell. Take Enceladus, a moon of Saturn—it's a giant ball of ice with a rocky core. Its bright, icy surface reflects more sunlight than any other body in the Solar System. And deep beneath the ice, there's likely a vast ocean of liquid water.

Neptune

Uranus

HMM... IF SPACE HAS WATER, MAYBE THERE ARE SOME ALIENS THERE?

Life-giving water

Oceans filled with different chemicals, along with lightning and maybe other things we don't know about, helped life begin on Earth. But one thing is sure—liquid water was needed.

A long time ago, Earth looked very different. The sky was thick with ash and steam. We don't know exactly how non-living things turned into living ones. But we do know life began about 4 billion years ago—and many mysterious things happened along the way.

Life began about 4 billion years ago.

Simple living things may have appeared more than once. But they kept disappearing. We don't know how many tries it took before life finally stayed.

About 650 million years ago, Earth went through a time when almost the entire planet froze. Even the warm, tropical areas near the equator were covered in ice! Back then, life could only survive deep in the oceans, hidden beneath the frozen surface.

Water is the key to life. Life began in water.

Drinking the same water as the dinosaurs



YUMMM!!!

The water we have, the water we drink today and every day, is actually the same water that dinosaurs drank millions of years ago.

And we should make sure future generations have the same clean water to drink. You don't have to be a water expert to know that taking care of it is important—for us, for kids in the future, and for their children, too. Fresh water on Earth isn't unlimited. The more we waste or pollute, the less there will be, and the harder it will be for everyone to get the water they need.

!

Water is life

Without water, there would be no life on Earth. Water is essential for all living things—from plants and insects to reptiles, fish, birds, mammals, and humans. No one can survive without water.

A WATER MOLECULE IS VERY SMALL. IF YOU LINED UP WATER MOLECULES IN A ROW TO MAKE A LINE HALF INCH LONG, THERE WOULD BE ABOUT FORTY MILLION OF THEM.

THERE ARE ABOUT 1 SEXTILLION WATER MOLECULES IN EACH DROP OF WATER.

SO ONE DROP OF WATER CONTAINS ABOUT AS MANY MOLECULES AS THERE ARE STARS IN THE ENTIRE VISIBLE UNIVERSE.

You would have to write that number as a 1 followed by 21 zeros!

1,000,000,000,000,000,000,000.

*The universe
could hide
in one drop.*

No water, no industry

Water is the basic material for almost everything we do. In factories, it's used to cool machines, clean things, and rinse and process raw materials. It's also needed for chemical reactions to make all sorts of products that don't seem like they need water at all.

Hard to believe, right?

You can't make a car without water.

~ 39,000 gallons

Making one car uses enough water to fill about 600 bathtubs!

~ 7 gallons

Do you know what's important for making glass? A lot of energy for heat, silica sand, and . . . water.

SEE HOW MUCH WATER IS USED TO PRODUCE COMMON ITEMS.

How many T-shirts do you have in your closet? Water was used to make those too. You can't make jeans, sneakers, or a T-shirt without water.

~ 2,100 gallons

An average US family's water use for 10 days.

~ 250 gallons

~ 660 gallons

Enough to flush a toilet 440 times.

And of course, water is also used to make computers, and gaming devices.

~ 3,190 gallons

~ 3,500 gallons

Even things like school desks, backpacks, notebooks, and pencils are made with water.

~ 2 gallons

~ 80 gallons

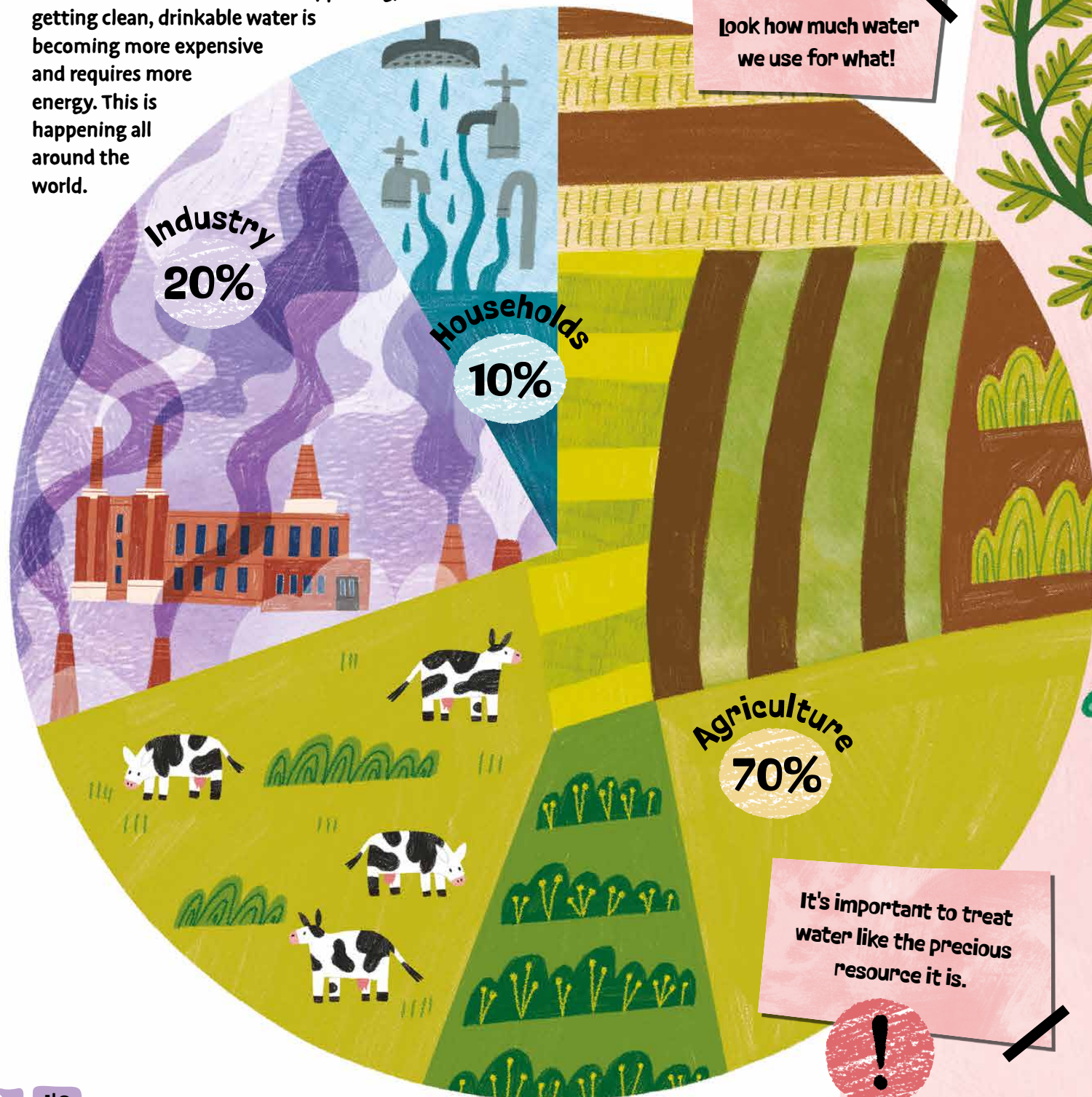
~ 120 gallons

WHOA! MAKING THE PAPER FOR THIS BOOK USED ENOUGH WATER TO GIVE 10 QUICK ELEPHANT SHOWERS!

Even modern technology needs water! The big storage facilities of companies like Google and Facebook use water to cool their servers, which are the brains behind things like artificial intelligence.

A most precious gift

Water was once easier to find and use when there were fewer people, but today, with so many more people and increasing water use, it's not as simple. That's why it's important to treat water like the precious resource it is. While water itself isn't disappearing, getting clean, drinkable water is becoming more expensive and requires more energy. This is happening all around the world.



look how much water we use for what!

It's important to treat water like the precious resource it is.



World Water Day

March 22

World Water Day is a time when leaders talk about how important water is and how we need to protect it. On 31 July 2010, the United Nations made a resolution saying that everyone has the right to safe, drinkable water.

The UN created World Water Day, which is celebrated every year on March 22. In Europe, the European Union made a special plan to protect water, called the European Water Charter, on May 6, 1968.

Water is the common property of humanity.

Water belongs to everyone.

If you drink water straight from the ground or catch rainwater, it's free. But when water needs to be cleaned, moved, or made in a special plant, it costs money—and it's getting more expensive.

I'M THE BEST GIFT EVER!



Every drop is precious



In many parts of Africa, water is hard to find, and families, mostly women and children, have to walk long distances to get it. People in developed countries simply turn on a tap and get clean water, but that's not the case in Africa. Every drop of water is super valuable —so much so that there are villages where people wash clothes only once a year. Water must be saved for drinking and cooking, so it's not used for washing hands, not even after going to the toilet.



WE HAD TO WALK 6 MILES FOR WATER TODAY.

Jordan River

The Jordan River is special and considered holy, but it's being hurt by people's actions. It starts in the mountains, flows through the Sea of Galilee, and forms the border between Israel and Jordan. It brings water to the Dead Sea and is used for drinking, farming, and factories. But in some places, it's become dirty and stinky.

People from different countries are working together to help save it.



The Aral Sea

It was once one of the largest lakes in the world. Even though it's called a sea, it's a lake. It got much smaller because people used its water to grow crops.

Whole empires were lost because people didn't have enough water. People have always moved to find water, and they still do today.



Rivals for water

Water has caused wars before.



The word

"rival"

comes from an old word that meant someone fighting over water.



While water was once scarce in the mountain regions, the melting glaciers have allowed farming to grow. But scientists worry that one day, when most of the ice melts and drains away, these rivers may dry up, and the more than one-third of the world's population who depend on them could be affected.



The Wonders of WATER

DIVE INTO THE MYSTERIES OF WATER!

Where does water come from? How does it shape life, power cities, and connect the whole planet? From ocean depths to outer space, The Wonders of Water explores the water cycle, weather, energy, and the essential role water plays in our bodies and the Earth. With playful illustrations and kid-friendly science, this book makes a splash for young nature lovers ages 6–10.

6+

TARGET GROUP



ECO EDUCATION



FUN TO READ



VOCABULARY



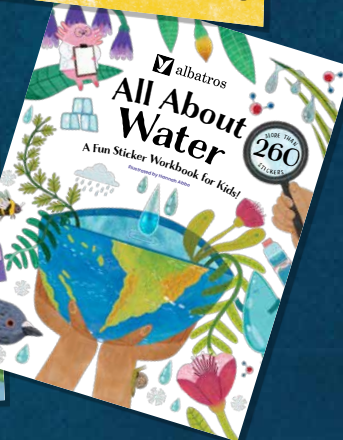
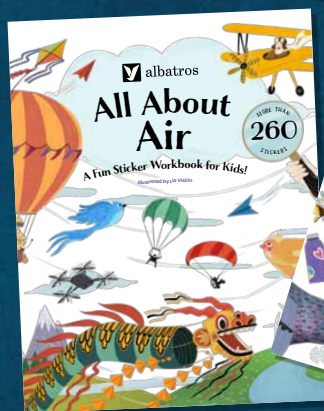
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