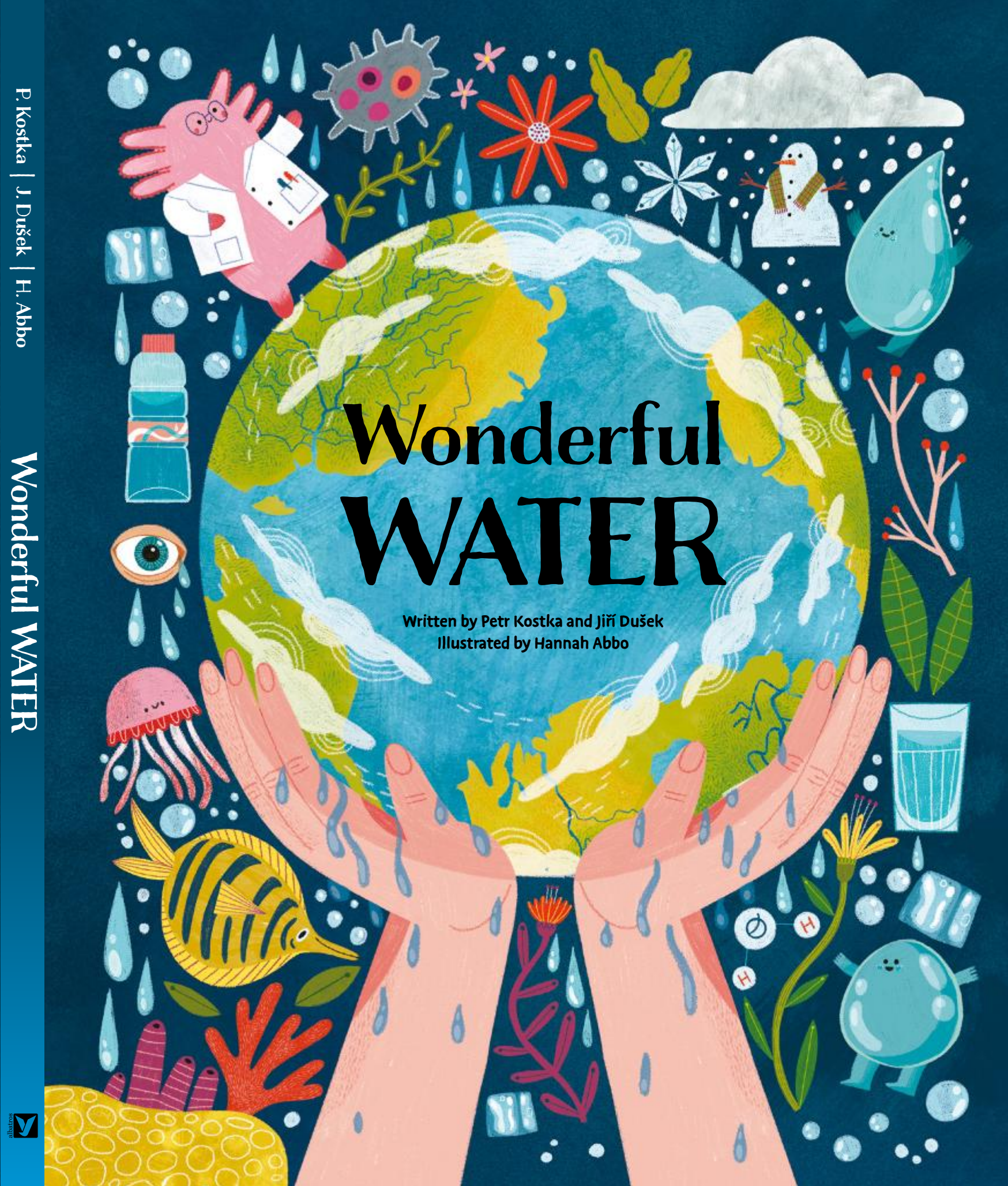

Wonderful
WATER
Written by Petr Kostka and Jiří Dušek
Illustrated by Hannah Abbo
P. Kostka | J. Dušek | H. Abbo
Wonderful WATER

Contents

What is water?

Water is fun

swimming

Tell them that water is wonderful!

water balloons

kayaking

splashing

YES! It's tremendous fun. Look what we can do with water!

water fights

waterparks

water slides

jet skiing

hydroflying

paddleboarding

rafting

water polo

scuba diving

water skiing

surfing

Water activities are a blast. Let's take a closer look at water, which makes all of this fun possible!

Drinking the same water as the dinosaurs

I'm so thirsty!

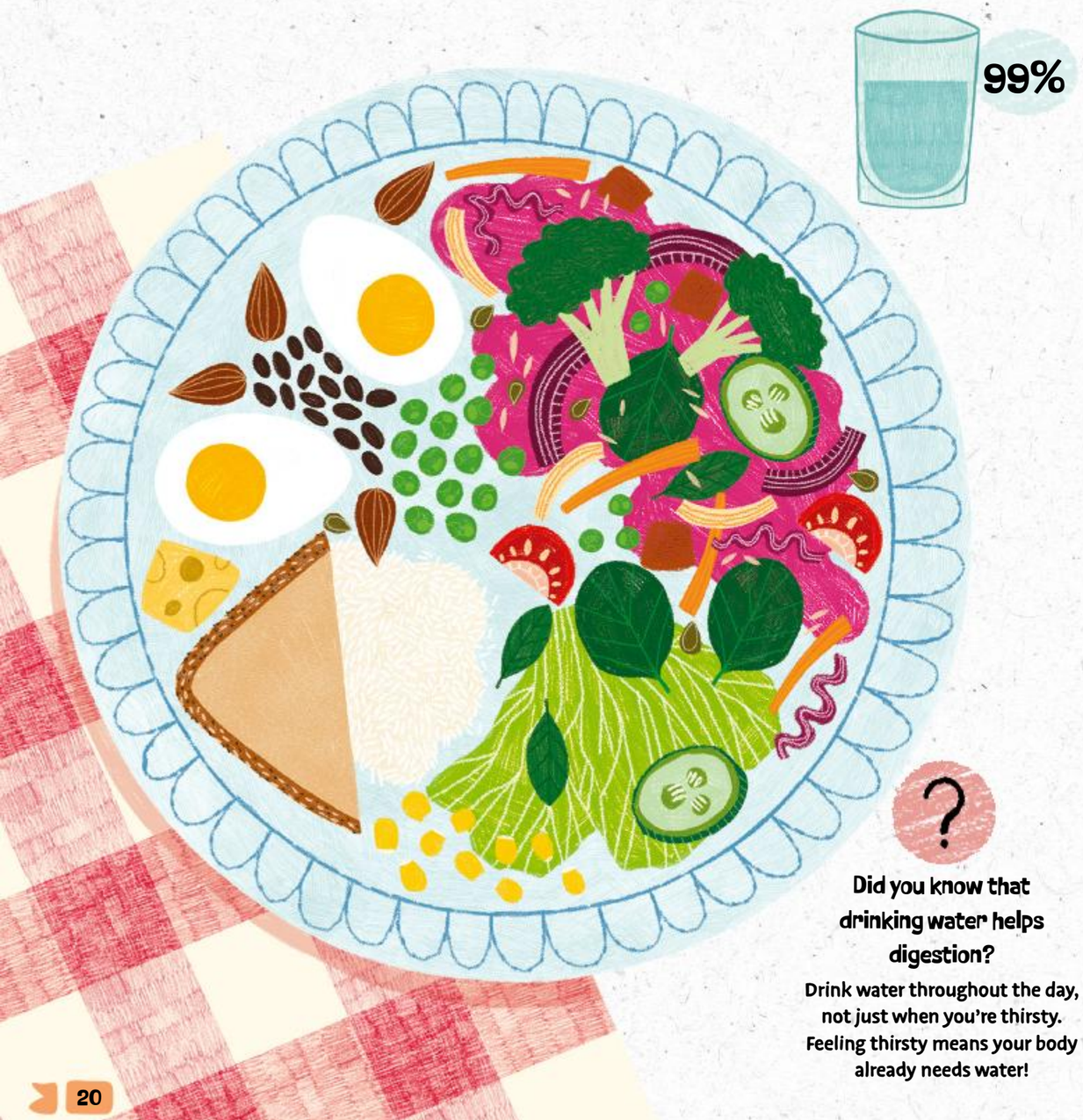
As we will see in later sections of this book, the water we have, the water we drink today and every day, is actually the same water that dinosaurs drank millions of years ago.

We must 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. 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.

!

How much water is in our food?

Almost all foods contain some water. If you track how much you drink each day, you can include the water you get from food as well. Soups, milk, yogurt, vegetables, and fruit are all good sources.

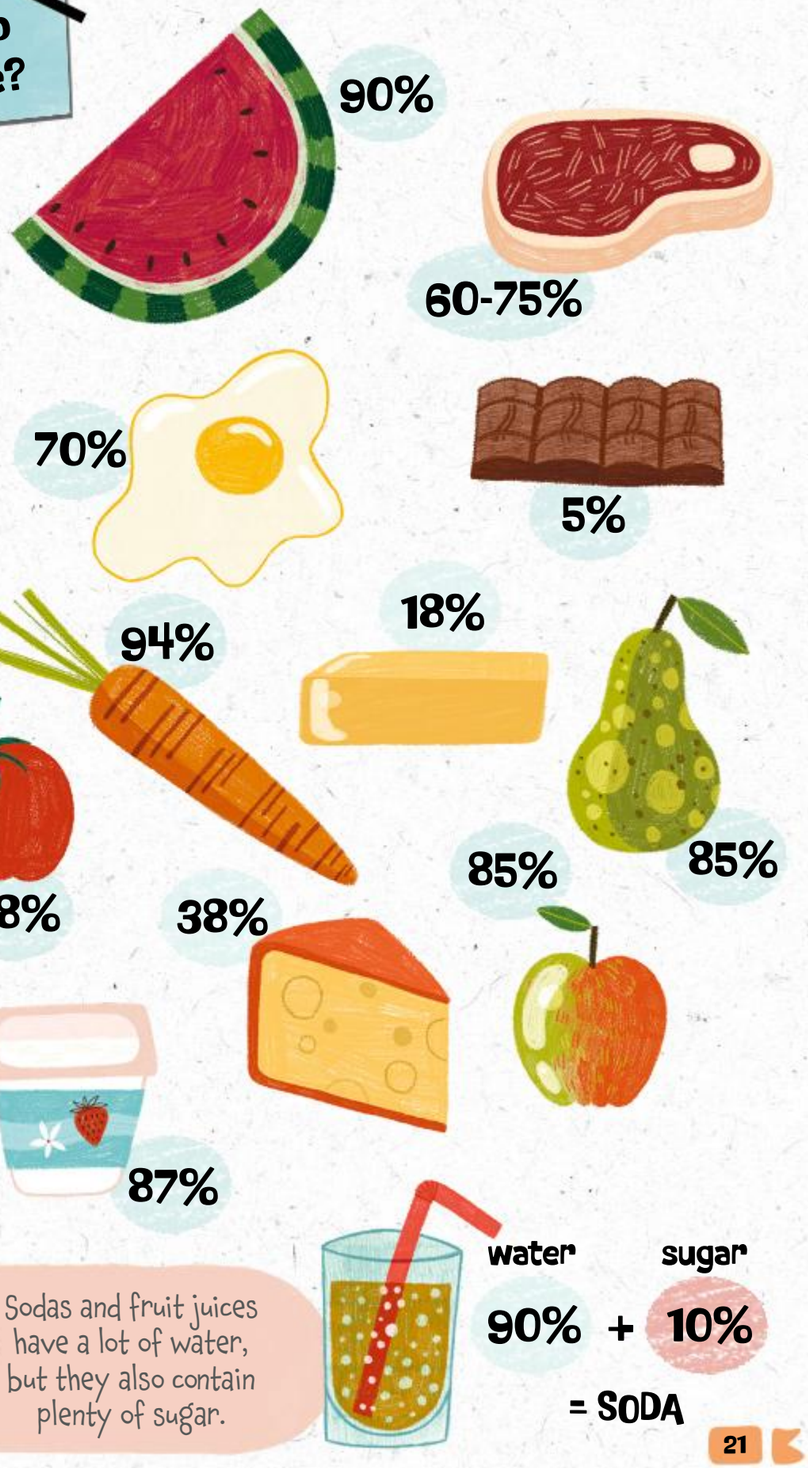


99%

Did you know that drinking water helps digestion?

Drink water throughout the day, not just when you're thirsty. Feeling thirsty means your body already needs water!

How much water do various foods have?



90%

60-75%

40%

70%

5%

94%

18%

96%

98%

38%

85%

85%

87%

water + **sugar**

90% + 10%

= SODA

Sodas and fruit juices have a lot of water, but they also contain plenty of sugar.

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. Nothing can survive without water.

A water molecule is tiny. If you lined up water molecules in a row to make a half-inch long line, there would be about 40 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.

As a numeral, 1 sextillion is written as a 1 followed by 21 zeroes!

1,000,000,000,000,000,000,000

Life in water

Earth's water is full of amazing creatures such as fish, turtles, and colorful coral reefs. Ocean plants make oxygen—which many living things need to breathe—and every plant and animal in the sea helps keep Earth healthy and beautiful!

Some animals, including dolphins and whales, need to come up for air, while others, such as fish, are able to breathe underwater.

Water on planet Earth

Some creatures that live very deep in the ocean glow in the dark because there's no sunlight so far below.

No water, no industry

Water is a basic need for almost everything we do. In factories, it's used to rinse and process raw materials, clean, and cool machines. During the production of goods, water is necessary for chemical reactions to take place.

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!

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

~ 3,190 gallons

You can't make anything without water

~ 2 gallons

~ 80 gallons

~ 3,500 gallons

~ 120 gallons

Even school desks, backpacks, notebooks, and pencils are made using water.

~ 7 gallons

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

Look how much water is used to produce common items:

What clothes are in your closet? Water was used to make them, too. For example, you can't make jeans, sneakers, or T-shirts without water.

~ 2,100 gallons

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

~ 250 gallons

~ 660 gallons

Enough to flush a toilet 440 times.

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

Whoa! The amount of water needed to make the paper for this book would be enough for an elephant to give herself 10 showers!

Water as a transport route

People have used waterways for transportation for a very long time. Before many roads existed, rivers and seas were the best way to travel and move goods. Ancient coastal people used trade routes along the shore and then sailed out into the open sea to search for new places and opportunities.

drakkar, a Viking warship

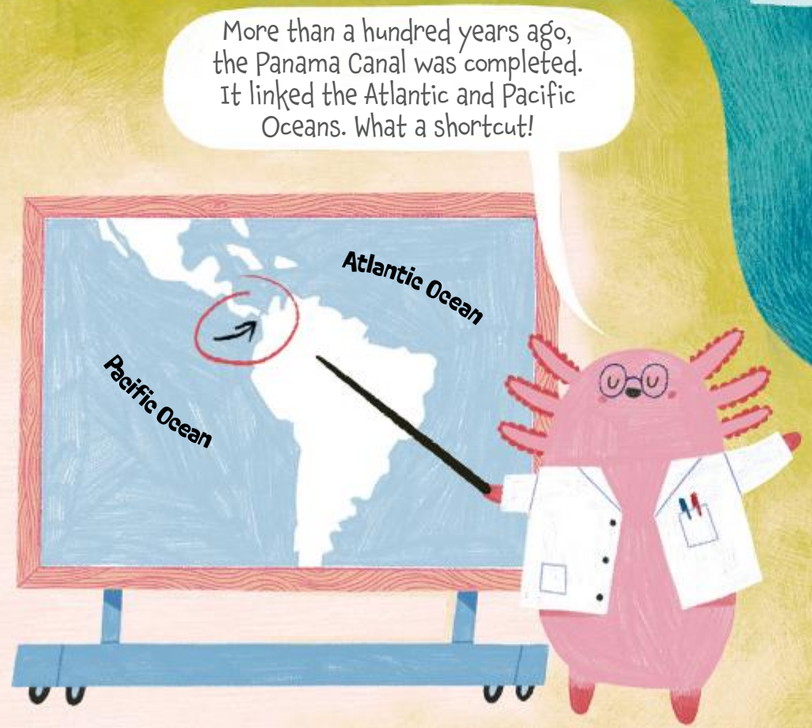
caravel, an explorer ship

This kind of ship of ship that was part of Christopher Columbus's 1492 voyage.

Spanish galleon

Egyptian reed boat

It's no surprise that people started building their own waterways too. As early as the thirteenth century BCE, Egyptians connected the Mediterranean Sea and the Red Sea with a simple canal, which was the start of what we know today as the Suez Canal. In the seventh century CE, China built a canal almost 1,250 miles long, linking Beijing and Hangzhou. Today, canals are also built between rivers, connecting whole continents with water routes.



You can't make anything without water

steamship

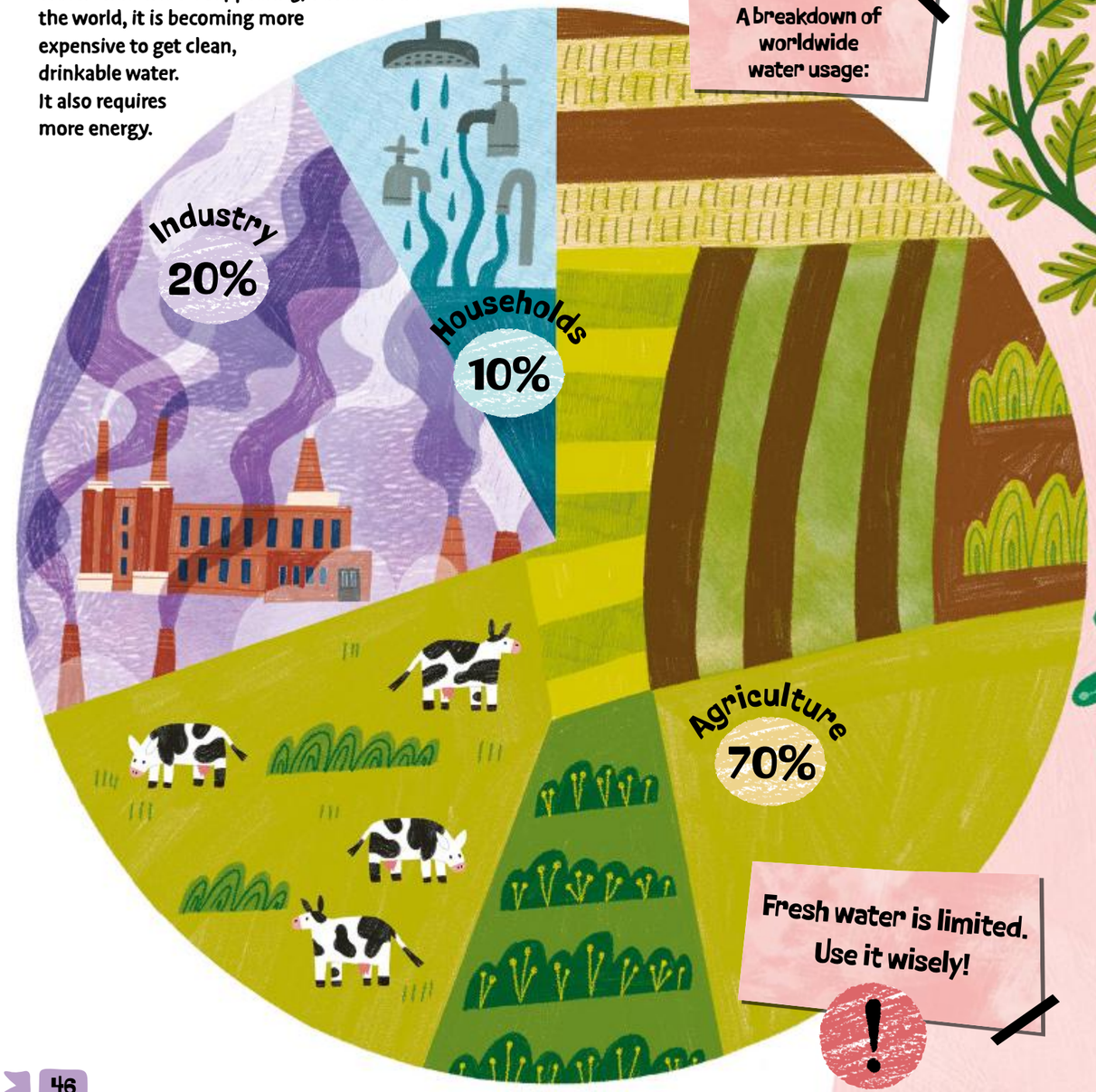
The largest container ships are about 1,312 feet long, which is roughly the length of four football fields! They can carry more than 20,000 special containers that hold goods—such as eight million microwaves, for example, or over 200 million bananas. You would need more than 1,000 giant airplanes or 50 of the world's longest trains to carry that much!

container ship

A most precious gift

Water was easier to find and use when Earth was less populated, but today, with increasing water use and so many more people, it's not as simple. That's why it's important to treat water like the precious resource it is. Water itself isn't disappearing, but all around the world, it is becoming more expensive to get clean, drinkable water. It also requires more energy.

A breakdown of worldwide water usage:



Fresh water is limited. Use it wisely!

World Water Day

March 22

In 1968, the European Union established a plan called the European Water Charter, to protect its limited freshwater resources. And since 1993, World Water Day, created by the United Nations, is celebrated annually on March 22.

In July 2010, a UN resolution recognized that every human has the right to water and sanitation. World Water Day celebrates water, but it also raises awareness of the billions of people who still don't have access to safe water.

Water is the common property of humanity.

Water belongs to everyone.

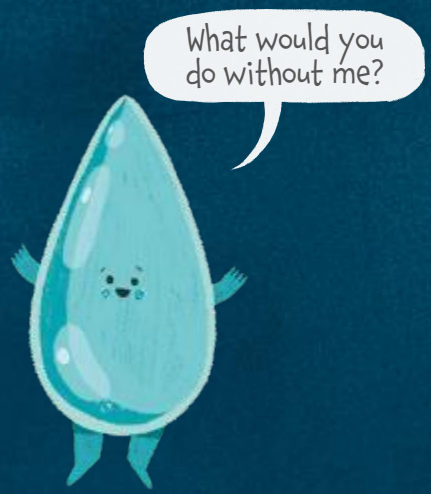
If you drink water straight from the ground or catch rainwater, it's free. But when water needs to be cleaned, moved, or made in a special plant, it costs money.

Wonderful 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, *Wonderful 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.

TARGET GROUP | ECO EDUCATION | FUN TO READ | VOCABULARY | LEARNING



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