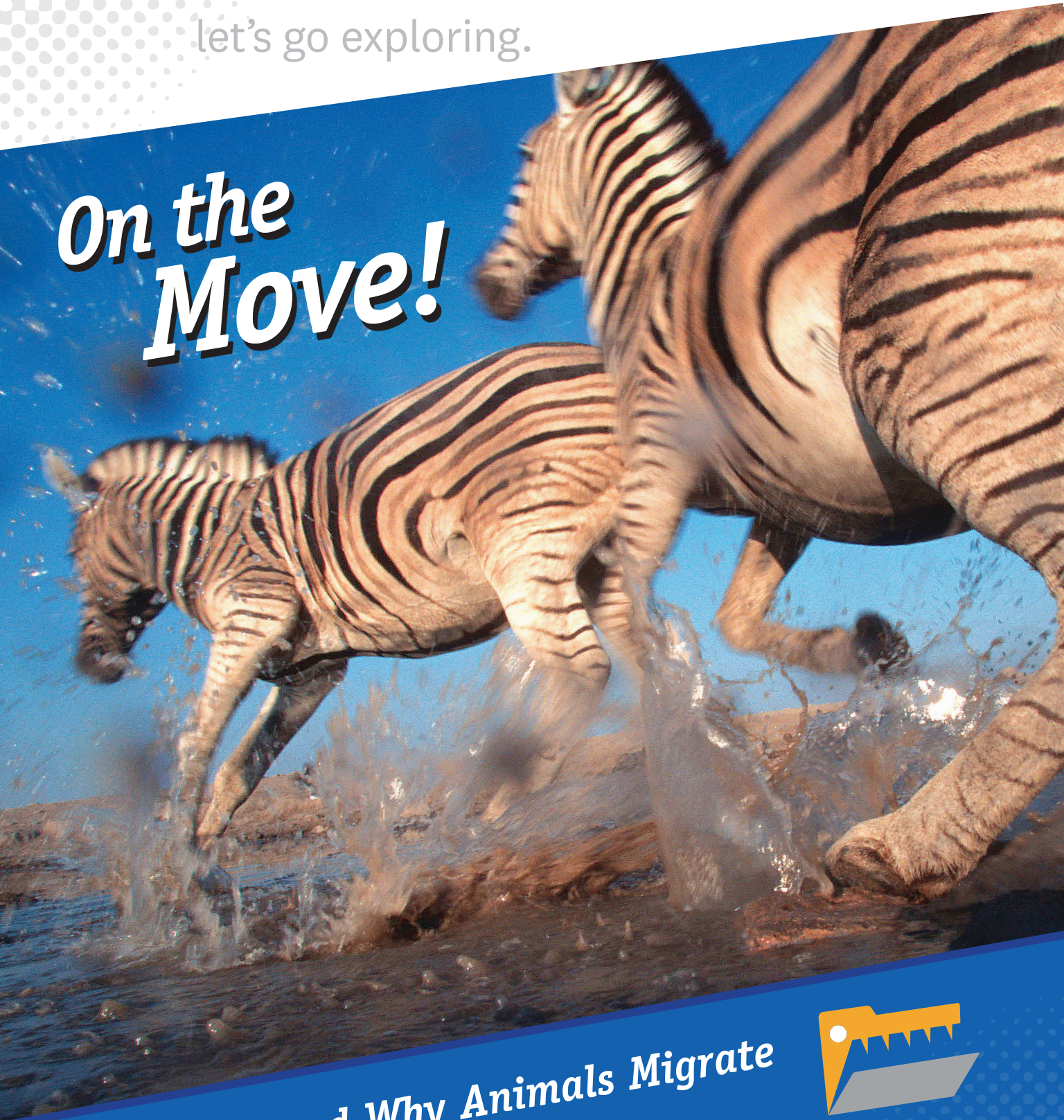


# worldkids

let's go exploring.

**On the  
Move!**



Where and Why Animals Migrate



# let's go exploring

God cares about every area of life, so WORLDkids does too. In this issue, discover science, history, citizenship, creatures, geography, and how things work.



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## Z Big Move

From butterflies to zebras, animal migrations are amazing and mysterious.



6

## Happy 100th!

The Panama Canal, "the world's greatest shortcut," is 100-years-old this year.



11

## Laura's Lions

The problem of invasive fish would be solved if there were more scientists like this girl.



14

## Welcome

No matter the nation, citizenship always mixes rights and responsibilities.



18

## Hard Water

Getting water where it is needed is harder than you might think.



22

## War Memory

Now 100 years later, look how World War I still changes *your* world today.



27

## Practice More

Practice makes perfect; perfect sense, that is. Playing pretend isn't just for kids.



CritterFile

30

## Endangered

Do they know we're looking out for them? How do we decide which are endangered?



# Hard Water

Thirsty? Turn on the tap. Hot? Grab an ice cube. Dirty? Hop in the shower. Water is easy to get, right?

Not everywhere. Clean water can be hard to find in Myanmar. Myanmar is an Asian country. It lies between India and China.

Myanmar is growing. More and more people need clean water. Some big cities there have running water. Pipes take clean water to homes. But in the small villages, water comes

from places called reservoirs. Reservoirs are like small ponds. They collect and store water.

Sometimes during Myanmar's dry season there is not enough clean water. "It wasn't always this way," says one villager. "There was enough water for all of us."

Every day men, women, and children line up. They fill plastic buckets with water. Some walk several miles to the reservoir. The lines are long. Villagers pay about 10 cents



Water seems to be everywhere. Earth is a watery planet. More than 70% of the Earth's surface is covered in water.

God gave us a bountiful supply of that necessary and valuable liquid. But getting it where we need it can be a challenge.

per bucket for water. They carry the dripping buckets from yokes on their shoulders.

The people must walk home again. The buckets are heavy with the precious load. No one wants to spill a drop! Thirsty villagers hope water pipes from the big cities come to the villages soon.



# Defying Gravity

It's an uphill battle! The fight is between water and gravity.

Southern California is a place to grow. People love California's grapes, nuts, and fruit. But California needs rain. Farmland is dusty. Plants are dying.

California has an aqueduct. It carries water to big cities. That

water could help the plants. But to get to them, it needs to flow backwards.

Water always flows downhill. Aqueducts use gravity to move that water. They are not meant to work backwards. Ever.

The backwards plan would deliver water from where there is much to where there is little. People could store it for

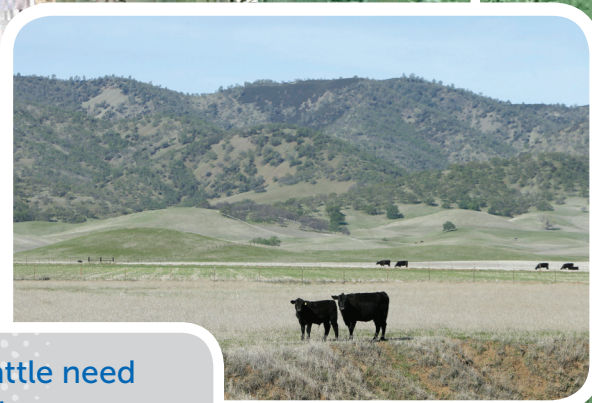
emergencies. Powerful engines would push the water upstream. Farmers could water thirsty fields.

The gravity-defying water plan sounds new. But it isn't. State officials pumped water backwards one other time. It was in 1983.

Officials hope they need the backwards plan just this year. But what if the land gets dry again? They want to be ready.

The California Aqueduct was built in the 1960s. It is 420 miles long. Millions of Californians need it for water.

Thirsty cattle need more water to mooove their way.



## Moving Water through the Years

All life needs water. People, animals, and plants need it to function and grow. Even many machines need water to work. And throughout history, it has taken a lot of work to get water! Some people still carry water from wells or streams in buckets. Moving water from place to place is a creative challenge. Here are some amazing waterways from the past:

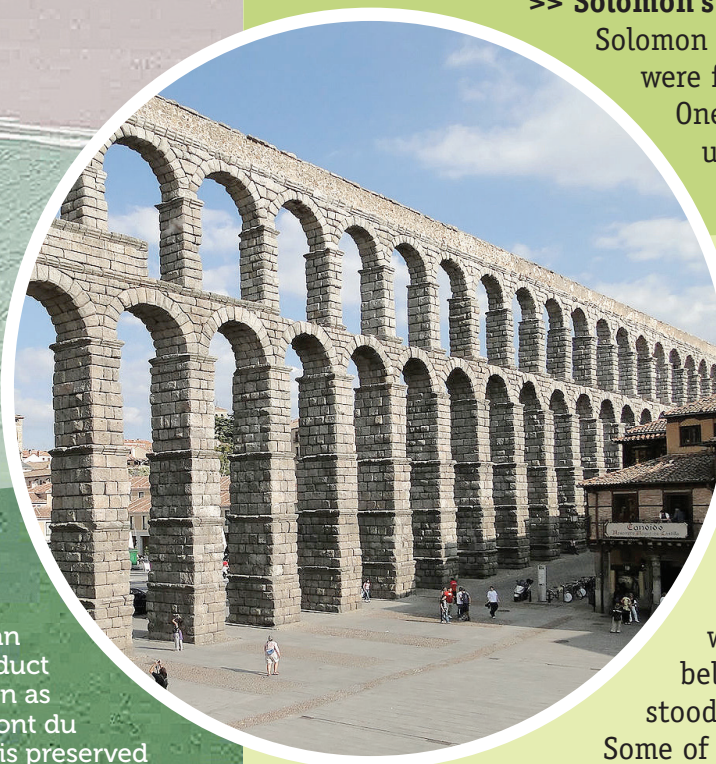


>> **Solomon's Pools:** In Bible times, King Solomon built pools to hold water. They were filled by underground springs. One after another, the pools stepped up the hillside. They provided water from near Bethlehem all the way to the temple in Jerusalem. That's about seven miles. The temple needed lots of water. It was used for bathing and cleaning up after sacrifices.

>> **Roman Aqueducts:** Early Romans used gravity to run water downward in ditches made of brick or stone. These were called aqueducts. Some were below ground. But others stood far above ground.

Some of their remains can still be seen today.

>> **Nazca Puquios:** The Nazca people of Peru built their water system about 1,500 years ago. They call it the Puquios. Underground channels direct water running through rock. Circular paths wind around and down to the water supply. The wells and tunnels are still used by people in the Nazca Valley today.



The Roman aqueduct known as the Pont du Gard is preserved today. The stones were cut so exactly that no mortar was needed to hold the structure together. It carried water about 31 miles, from Uzès to Nîmes, France. Here, a section in Spain is pictured.





Have you ever been stuck in traffic behind a tractor? How about 175 tractors—for 150 miles? Talk about slow!

But slow is just what these tractor drivers are looking for. They joined the Great Nebraska Tractor Ride so they could

relax. It gives them a break from their busy lives. It's amazing, drivers say, what you can see as you buzz along at 15 mph on a tractor.

Tractor enthusiasts come from several states to the annual ride. Their tractors are at least 20 years old.

Stuck behind this caravan? Get ready to enjoy the countryside. The Ride lasts two days!

## Your Way

Fire-grilled beef. Juicy tomatoes. Fresh cut lettuce. Creamy mayonnaise. Crunchy pickles. Mmmm. This must be Burger King. Have it your way.

Or don't.

Burger King has decided it's time to trade its 40-year-slogan for this: "Be Your Way."

According to Burger King, the new slogan should do more than make you hungry. It's sup



posed to say that you "can and should live how (you)

want anytime."

That's pretty deep stuff for a hamburger wrapper! What if people took the slogan's advice seriously?

Doing what you want all the time might sound fun. And it would work if people always wanted to do good things. But they don't. Following Burger King's advice might be even worse for people than hamburgers are!

## Photo Frenzied

It's baby Arabelle's first trip to the Brooklyn Museum. Her mom and dad want pictures. That will help them remember the day. But they don't want just any pictures. They want professional ones.

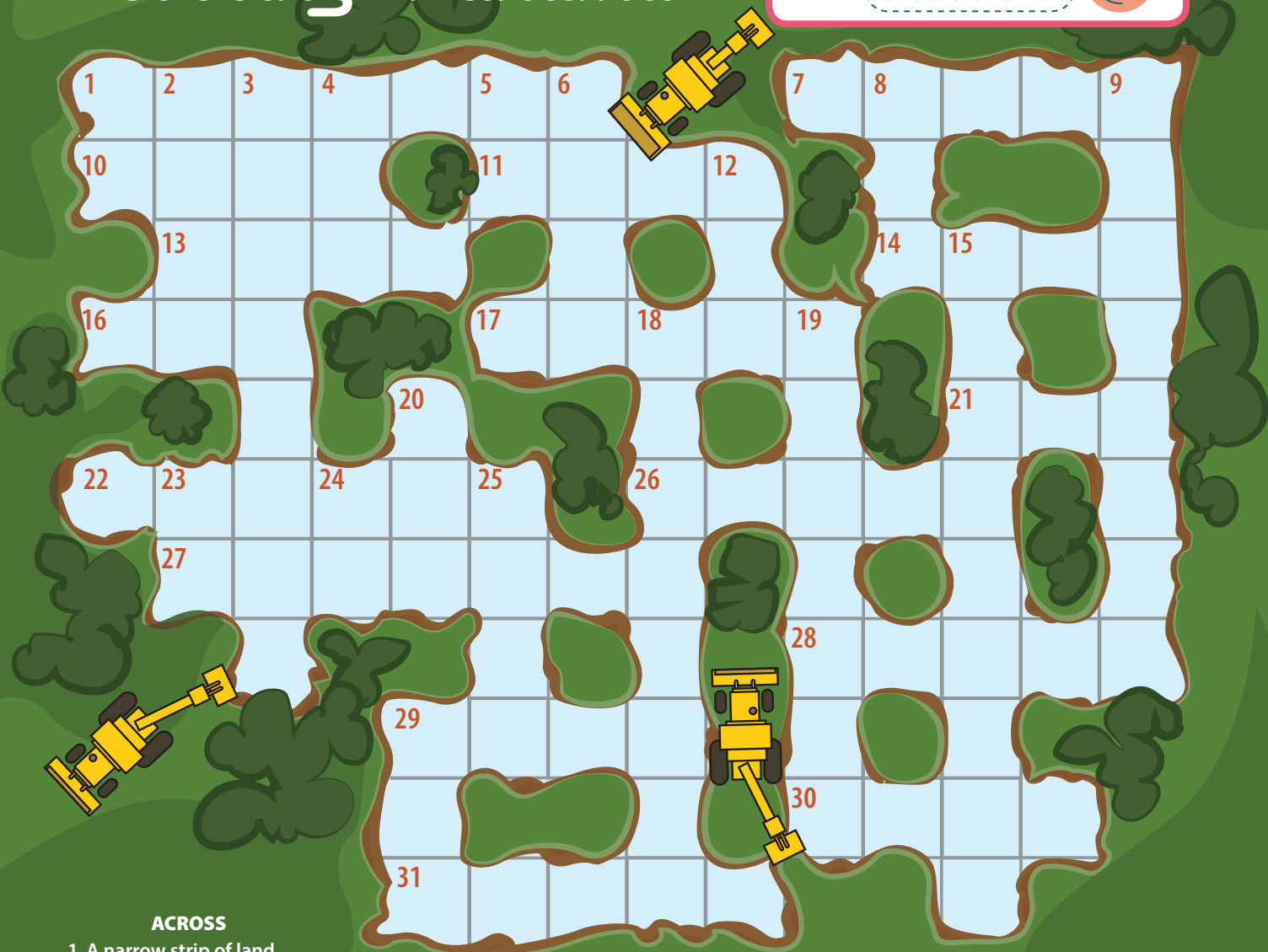
The Rhodes family hires photographers to follow them once a month. They capture the Rhodes' everyday lives. No more blurry cellphone shots. No more selfies.

"She changes every month," says Arabelle's mom. "We wanted to be able to capture all those things."

Today, people often use pictures to tell each other about their lives. They share them on Facebook or Twitter. But hiring professionals to take most of them might be going a little too far!



# Crossing Panama



## ACROSS

- 1 A narrow strip of land that connects two larger land areas. The canal crosses the \_\_\_\_\_ of Panama.
- 7 True or False? The Panama Canal was first China's project.
- 10 Quarreling slowed the Canal project at times. "As charcoal to embers and as wood to \_\_\_\_\_, so is a quarrelsome person for kindling strife." (Proverbs 26:21).
- 11 Stopper. Keeps water from draining.
- 13 Area of land. The Panama Canal \_\_\_\_\_ is about 5 miles wide on both sides for the length of the canal.

- 14 Pull something along
- 16 Energy, liveliness
- 17 Low, mushy, wet land
- 21 If something belongs to you, you \_\_\_\_\_ it.
- 22 Something you tell no one
- 26 Set of huge boxes with water-tight doors, used to raise and lower ships
- 27 Mosquitos spread this disease.
- 28 High body temperature from sickness
- 29 Pay to use something
- 30 Not stormy
- 31 A long, shallow, trench dug along a road or field.

One of the Panama Canal's nicknames is "the big \_\_\_\_\_."

## DOWN

- 1 Word that states a condition. "\_\_\_\_\_ this, then that."
- 2 Measurement. What \_\_\_\_\_ are your shoes?
- 3 Panama's climate. Hot and wet like a jungle.
- 4 Female bird
- 5 Not down
- 6 Not fast. Ships go this speed through the canal.
- 8 Not subtract
- 9 Person who designs and plans projects

- 12 Sweet to chew, and chew, and chew . . .
- 15 Teddy \_\_\_\_\_ was president when the U.S. took over work on the Panama Canal.
- 18 Ocean on northern end of the canal.
- 19 Ocean on southern end of the Panama Canal
- 20 Hot drink made from plant leaves
- 23 Short for "Emily" or "Emma"
- 25 True or False. The United States does not own the Panama Canal.
- 29 A primary color



**Feed their curiosity,  
build their faith.**

If you have elementary age children, you know how challenging it can be to find tools that foster a love for learning and support your values. WORLDkids does just that, making it FUN for your kids to learn by exploring God's world. With digital content featuring brilliant animation and engaging activities, and bimonthly magazines full of fascinating stories and trustworthy messages—WORLDkids is sure to spark their interest and captivate their mind.

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