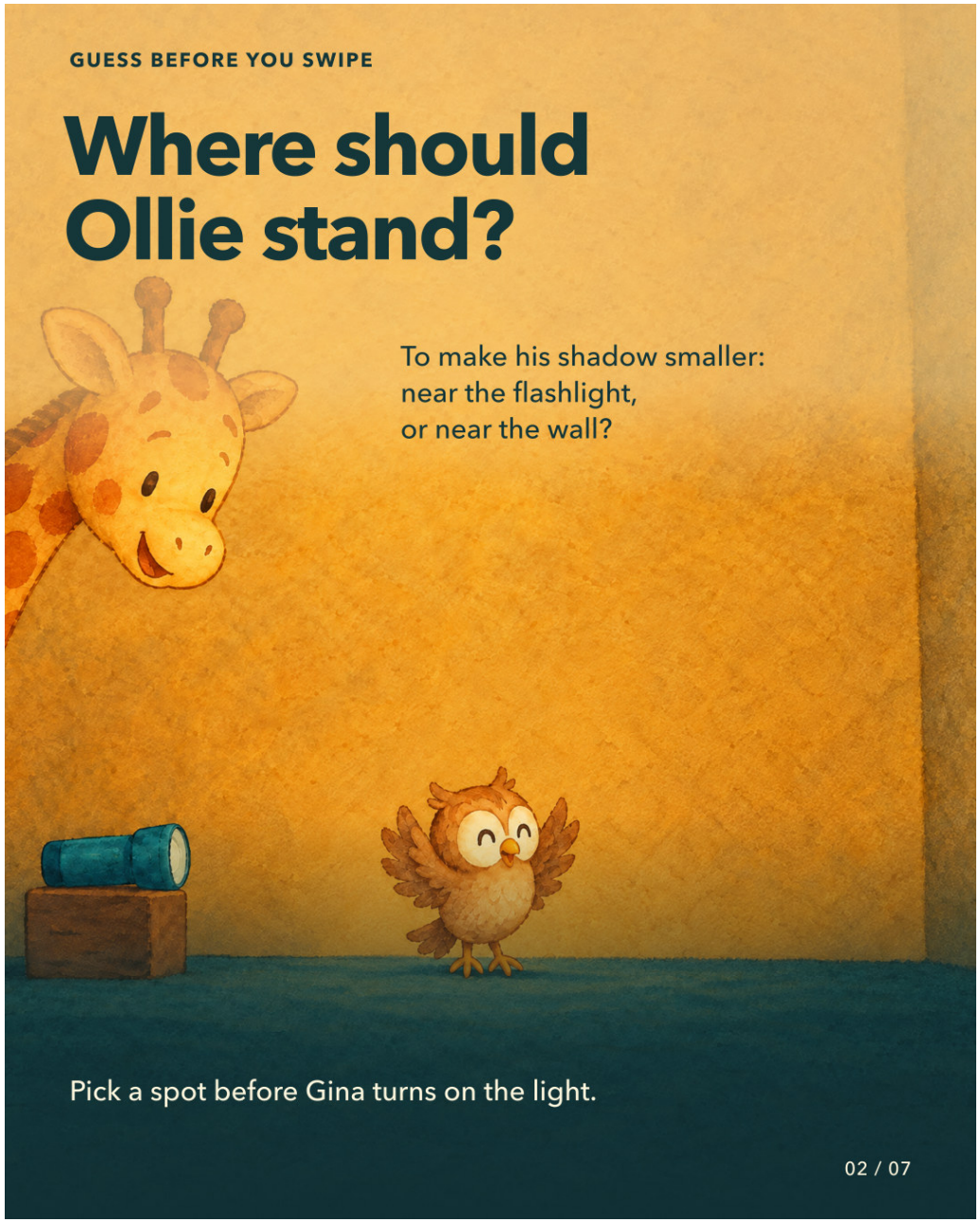
Learning with Gina and Ollie

Kiddos World · Exploration Library · Stories to explore together

01 Little owl. Giant shadow.	Story sheets 1–4
02 Same paper. Different fall.	Story sheets 5–8
03 Can water climb?	Story sheets 9–12
04 Can paper be a bridge?	Story sheets 13–16
05 Can you stop a sound?	Story sheets 17–20
06 Can you draw a hidden leaf?	Story sheets 21–24
07 Which bowl melts ice faster?	Story sheets 25–28
08 Did the pencil bend?	Story sheets 29–32
09 Will it float without its peel?	Story sheets 33–36
10 What slows the slide?	Story sheets 37–40
11 Can paper stay dry underwater?	Story sheets 41–44
12 What's hiding in black ink?	Story sheets 45–48
13 Can soap move pepper?	Story sheets 49–52
14 Can a comb lift paper?	Story sheets 53–56
15 Can a paper flower bloom?	Story sheets 57–60
16 Where did the sugar go?	Story sheets 61–64
17 What grows first?	Story sheets 65–68
18 Can you spot the wind?	Story sheets 69–72
19 Same leaf. Different numbers?	Story sheets 73–76
20 Does shiny mean magnetic?	Story sheets 77–80

Index is separate from story-sheet numbering. Print at actual size or fit to printable area.


WONDER TOGETHER · 01
Little owl.
Giant shadow.
A small adventure with Gina and Ollie.
01 / 07


GUESS BEFORE YOU SWIPE
Where should Ollie stand?
To make his shadow smaller:
near the flashlight,
or near the wall?
Pick a spot before Gina turns on the light.
02 / 07

GINA'S FIRST TEST

Near the light.
BIG shadow.



Ollie steps closer to the flashlight.

Same owl. Same flashlight. Same wall.

03 / 07

NOW, TRY THE OTHER WAY

Near the wall.
Small shadow.



Gina guides Ollie farther from the light.

Only Ollie's position changes.

04 / 07

THE PART TO REMEMBER

Ollie didn't grow. His shadow did.

Ollie blocks some light.
His shadow falls on the wall.



Move the owl. Change the shadow.

05 / 07

YOUR CHILD IS THE DIRECTOR

Make a giant. Then make it tiny.

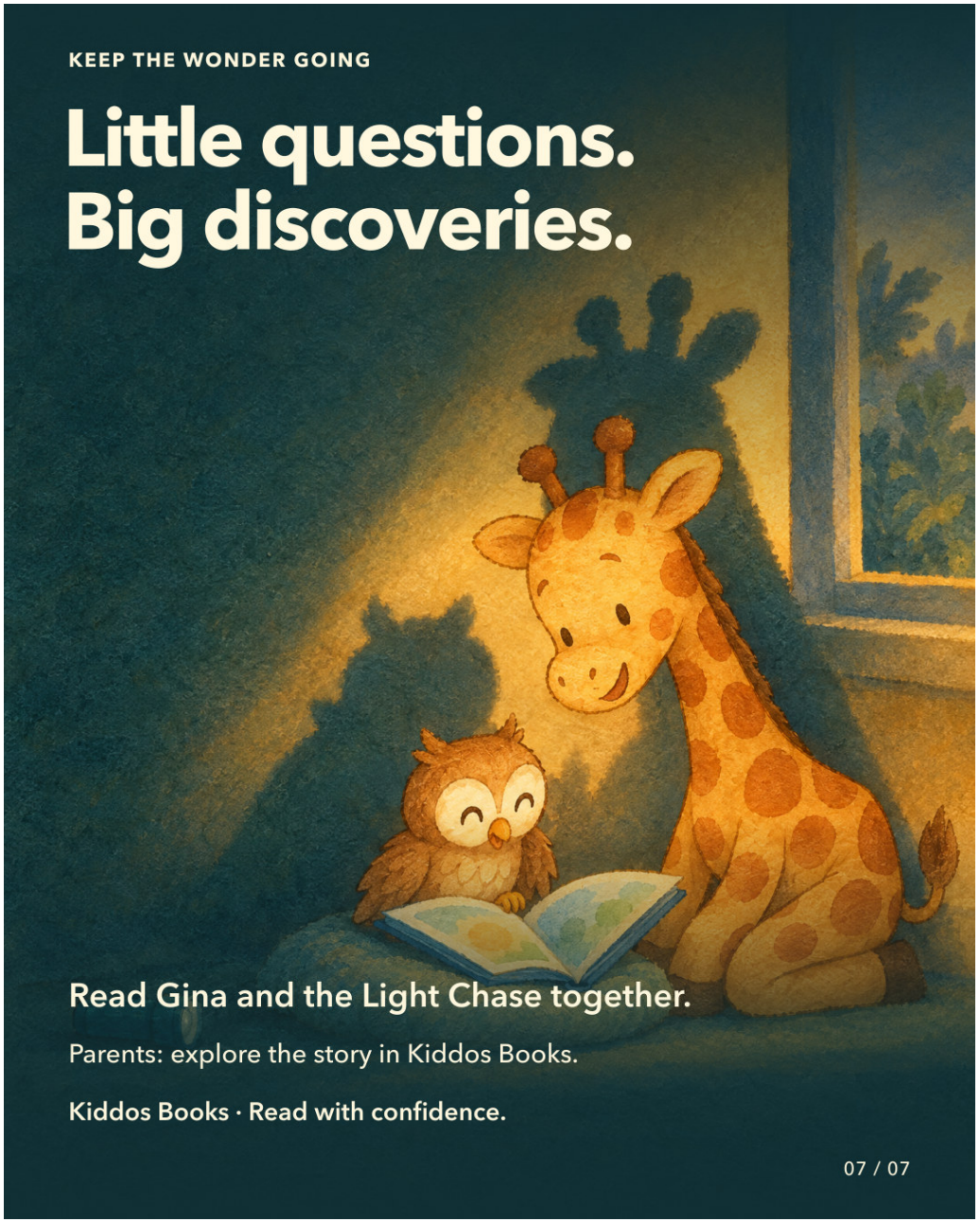
Adult: hold a flashlight still, aimed at a wall.
Put a hand in the beam. Keep its shape.
Let your child choose where to move it.



Ask: "What changed? What stayed still?"

Aim away from eyes.
Keep enough room light to move safely.

06 / 07


KEEP THE WONDER GOING
Little questions.
Big discoveries.
Read Gina and the Light Chase together.
Parents: explore the story in Kiddos Books.
Kiddos Books · Read with confidence.
07 / 07

WONDER TOGETHER · 02

Same paper. Different fall.



One sheet. A little adventure with Gina and Ollie.

01 / 07

GUESS BEFORE YOU SWIPE

Can Gina make it fall faster?

Keep it flat—or crumple it?



Choose before Gina lets go.

02 / 07

FIRST, KEEP IT FLAT

Watch it flutter.

Gina lets the flat sheet go.



Notice how it moves through the air.

03 / 07

NOW, CRUMPLE THE SAME SHEET

A little ball. A faster fall.

Gina drops it from the same height.



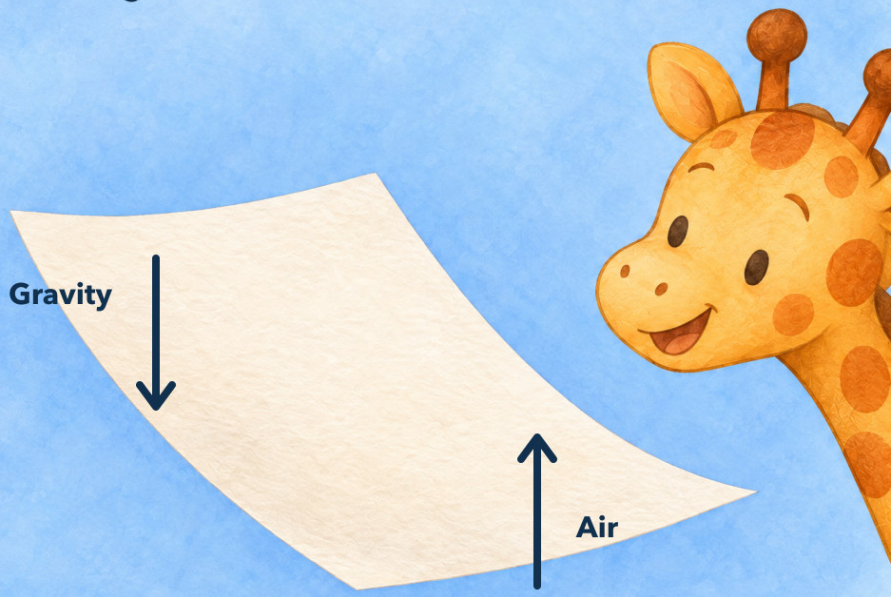
Same paper. Same drop. New shape.

04 / 07

THE PART TO REMEMBER

Air slows the wide sheet more.

Gravity pulls it down.
Air pushes against its fall.



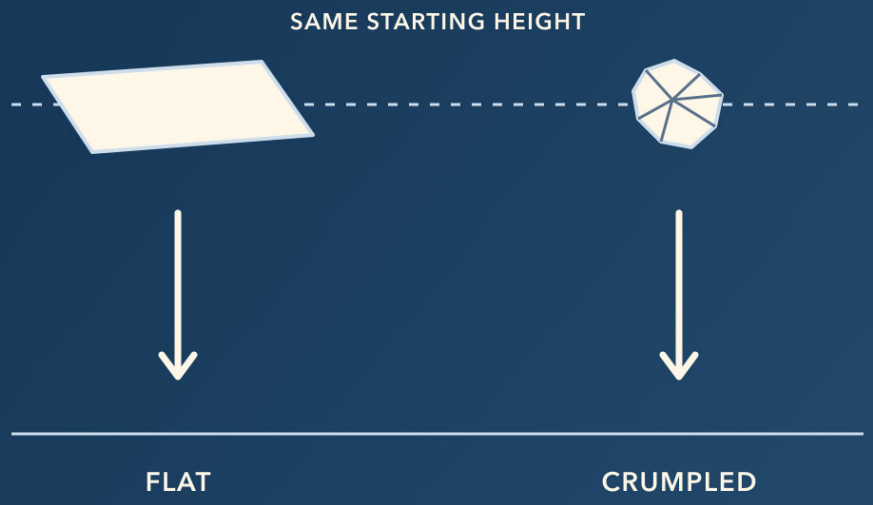
Changing the shape changes the fall.

05 / 07

TRY IT TOGETHER · ONE SHEET

Your child calls the drop.

Drop a flat sheet.
Crumple it. Drop it again.
Use the same starting height.



Ask: “What changed?”

With an adult. Feet stay on the floor.
Let go gently—no throwing.

06 / 07

KEEP THE WONDER GOING

One little sheet. A bigger question.

Read Gina and the Great Gravity Hug together.



Parents: explore the story in Kiddos Books.

Kiddos Books · Read with confidence.

07 / 07

WONDER TOGETHER · 03

Can water climb?



One cup. One paper towel.
A little wonder with Gina and Ollie.

01 / 07

GUESS BEFORE YOU SWIPE

Only the tip will dip.

Will the water stay at the bottom—
or travel up the towel?



Make a guess together.

02 / 07

FIRST, DIP

A little dip. A wet tip.

Gina dips just the bottom end.



Keep the rest above the water.

03 / 07

Discovery 03 · Page 3/7 · Ages 4–7

With a grown-up · Read the full adult setup in the companion guide before trying.

NOW, WAIT AND WATCH

Look how far it traveled!

The wet patch is above the water in the cup.



Same cup. Same towel. More time.

04 / 07

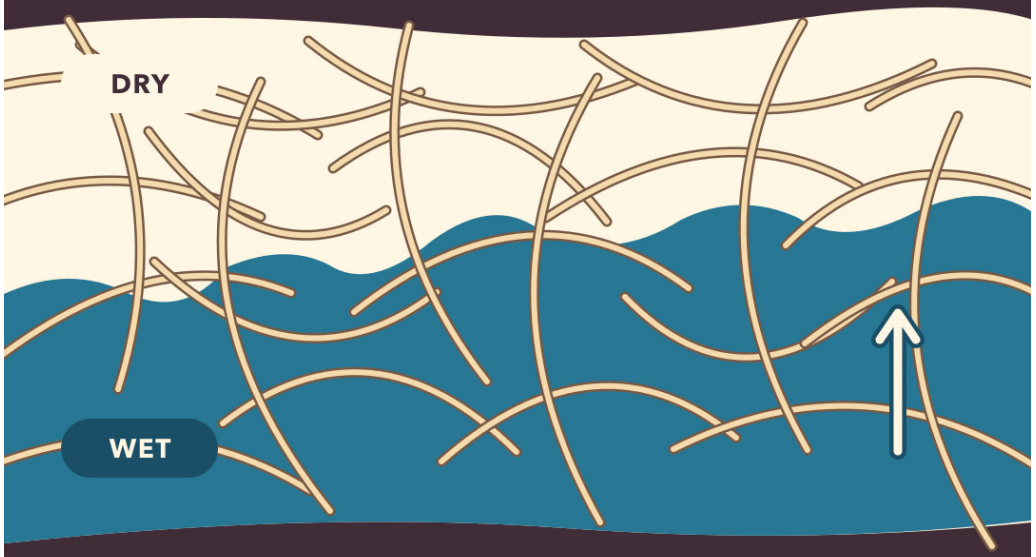
Discovery 03 · Page 4/7 · Ages 4–7

THE PART TO REMEMBER

Tiny spaces. A way up.

Water clings to the paper's fibers, drawing more water along.

SIMPLIFIED CLOSE-UP



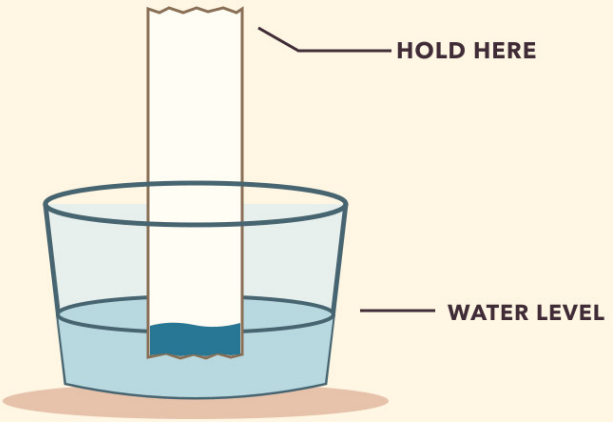
This is called capillary action.

05 / 07

TRY IT TOGETHER

Your child spots the climb.

Tear a strip of paper towel.
Hold it upright. Dip just the tip
in a little water. Wait and watch.



Optional: an adult adds a drop of food coloring.

Ask: "Where is it wet now?"

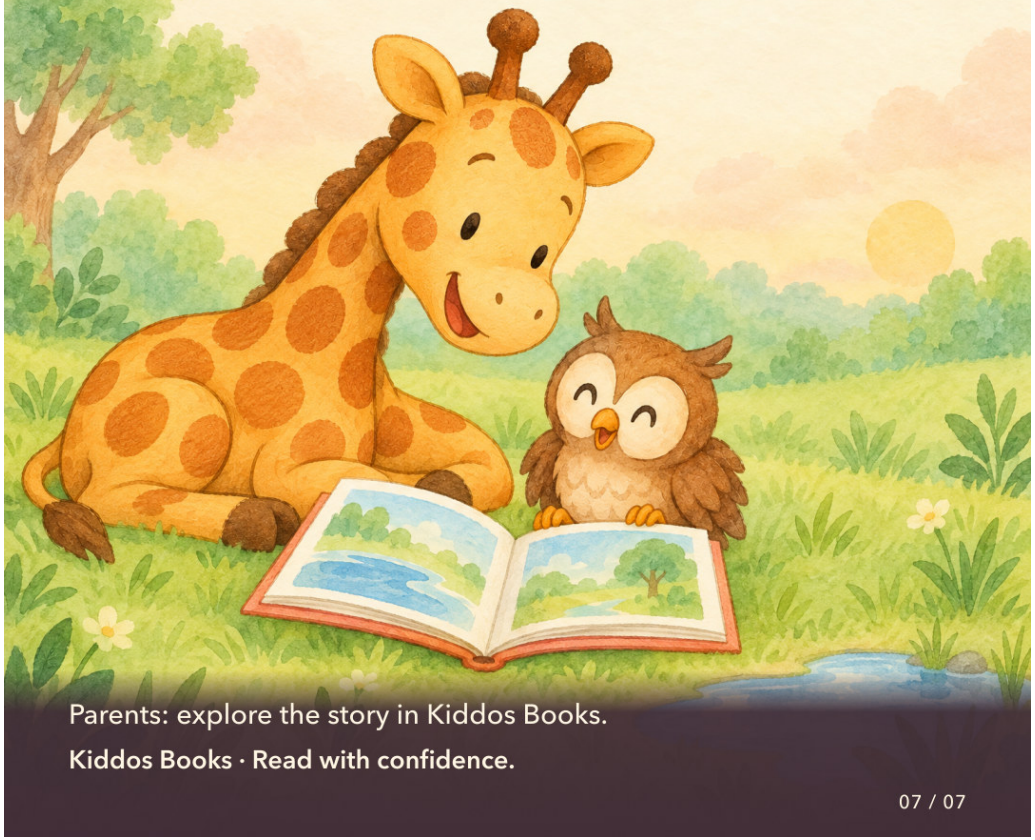
With an adult. Use an unbreakable cup.
Keep the tip dipped. Wipe up spills.

06 / 07

KEEP THE WONDER GOING

Where will water go next?

Read Where Did My Water Go? together.



Parents: explore the story in Kiddos Books.

Kiddos Books · Read with confidence.

07 / 07

WONDER TOGETHER · 04

Can paper be a bridge?

One sheet. One little challenge.
Build with Gina and Ollie.



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With a grown-up · Read the full adult setup in the companion guide before trying.

GUESS BEFORE YOU SWIPE

Will it bend?

Gina makes a flat paper bridge.
Will it stay flat—or bend?

Pause. Let your child guess.



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TRY THE FLAT SHEET

Oh! It bends.

Gina tests the middle.
The paper sags under the toy.

What could Gina change?



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CHANGE THE SHAPE

Fold. Try again.

Gina folds both long edges up.
Now her bridge holds the toy.

Same paper. Same toy. Same gap.



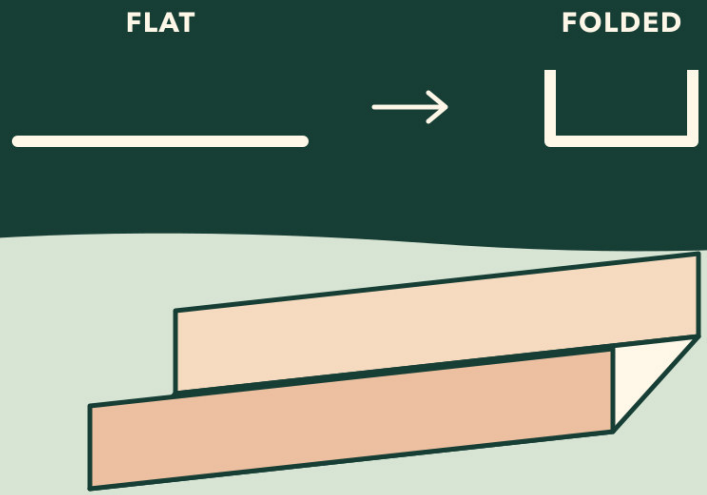
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THE PART TO REMEMBER

Same paper. Stronger shape.

The upright sides help the paper resist bending down.

END VIEW



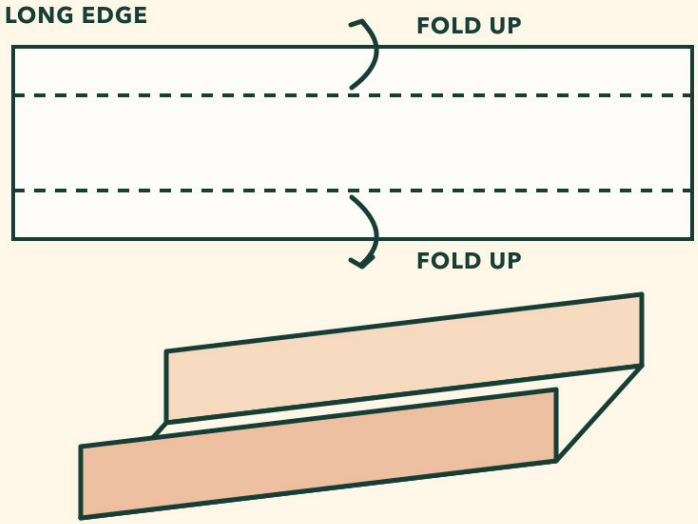
A new shape can make a difference.

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TRY IT TOGETHER

Your turn to build.

Bridge two books with a sheet.
Test one lightweight toy in the middle.
Fold both long edges up. Test again.



Leave the middle flat.

Ask: "What changed? What stayed?"

With an adult, on the floor. Use a large, child-safe toy. Keep the books in place.

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KEEP THE WONDER GOING

More little “why?” moments.

Read Gina and the Great Gravity Hug together.



Parents: explore the story in Kiddos Books.

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07 / 07

WONDER TOGETHER · 05

Can you stop a sound?

One bowl. One gentle touch.
Listen with Gina and Ollie.



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GUESS BEFORE YOU SWIPE

What will a touch do?

Ollie is ready to tap the bowl.
Will touching it change the ring?

Pause. Let your child guess.



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FIRST, LISTEN

Tap. Listen.

One gentle tap.
The bowl rings on.

Gina listens without touching.



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NOW, CHANGE ONE THING

Touch. Quiet.

Gina touches the bowl.
Its ring fades faster.

Same bowl. Same gentle tap.

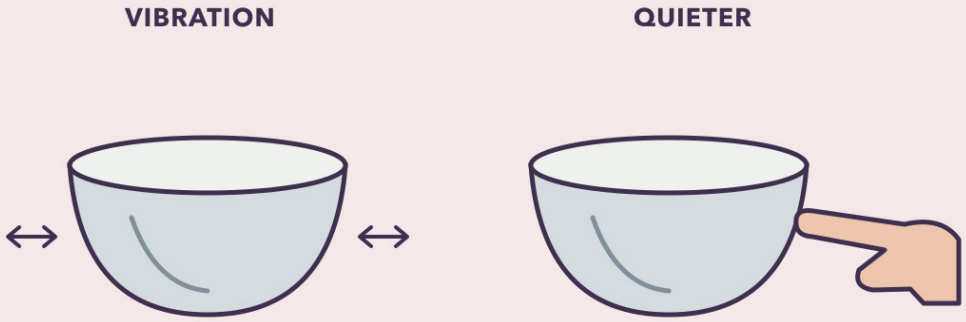


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THE PART TO REMEMBER

A tiny wobble. A sound.

The bowl vibrates: it moves quickly back and forth.



Movement shown larger.

Touch quiets the vibration—and the ring.

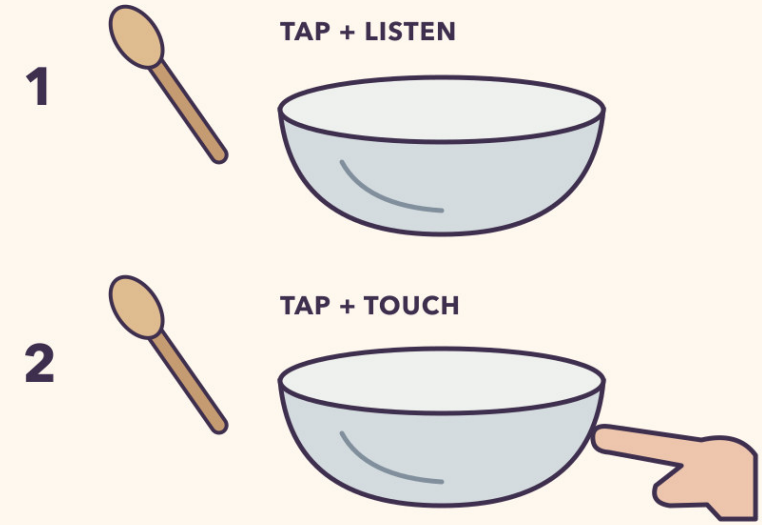
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TRY IT TOGETHER

Tap, touch… then compare.

Gently tap an empty metal bowl.
Listen. Tap again just as gently.
This time, touch its outside.

Empty metal bowl + wooden spoon



Ask: "Which ring lasted longer?"

With an adult. Set the bowl on a stable surface. Keep it away from ears.

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KEEP THE WONDER GOING

Little sounds. Big curiosity.

Read Gina and the Quiet Sounds together.



Parents: explore the story in Kiddos Books.

Kiddos Books · Read with confidence.

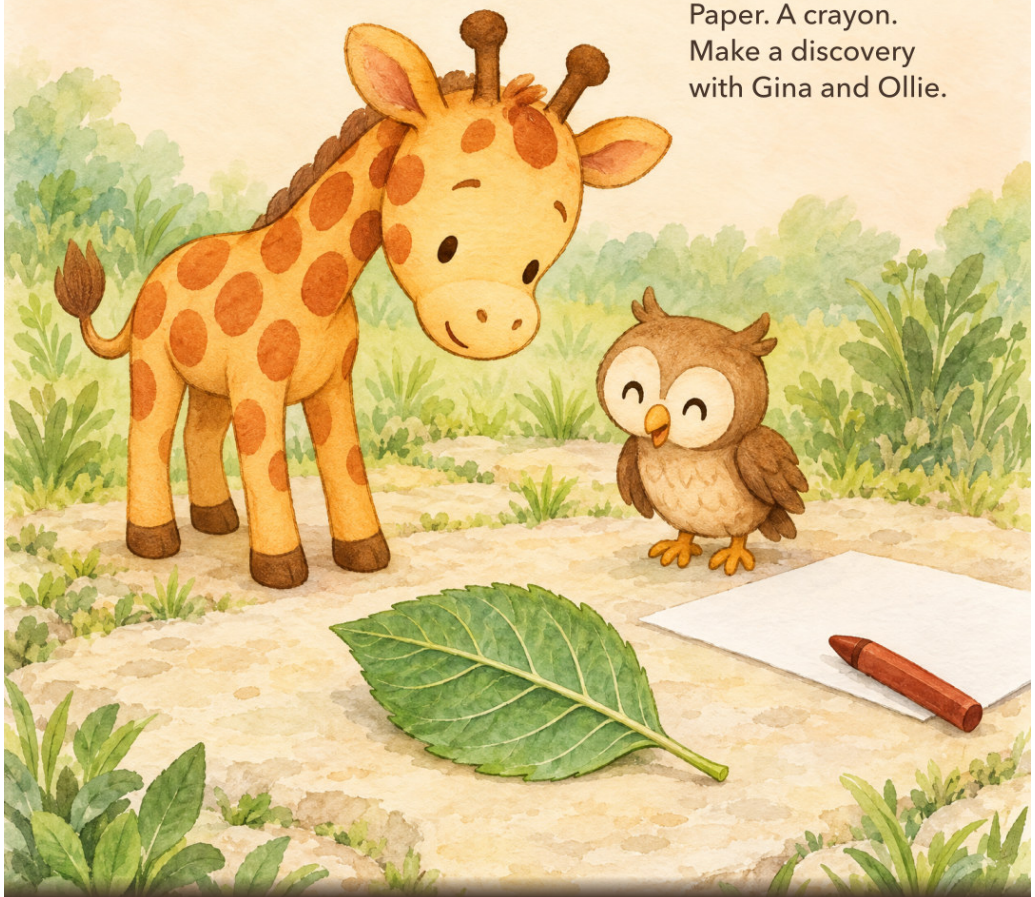
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07 / 07

WONDER TOGETHER · 06

Can you draw a hidden leaf?

One leaf.
Paper. A crayon.
Make a discovery
with Gina and Ollie.



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GUESS BEFORE YOU SWIPE

A leaf in hiding.

Gina covers the
leaf with paper.
What will a
crayon reveal?

Pause. Let your child guess.



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TRY A GENTLE RUB

Little lines appear…

Gina rubs with the crayon’s side. Ollie helps keep the paper still.

Look closely.
What can you see?



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THE HIDDEN PATTERN

There it is!

The leaf’s shape and veins appear. Gina made a leaf rubbing.

Same leaf.
Same paper.
Keep looking.

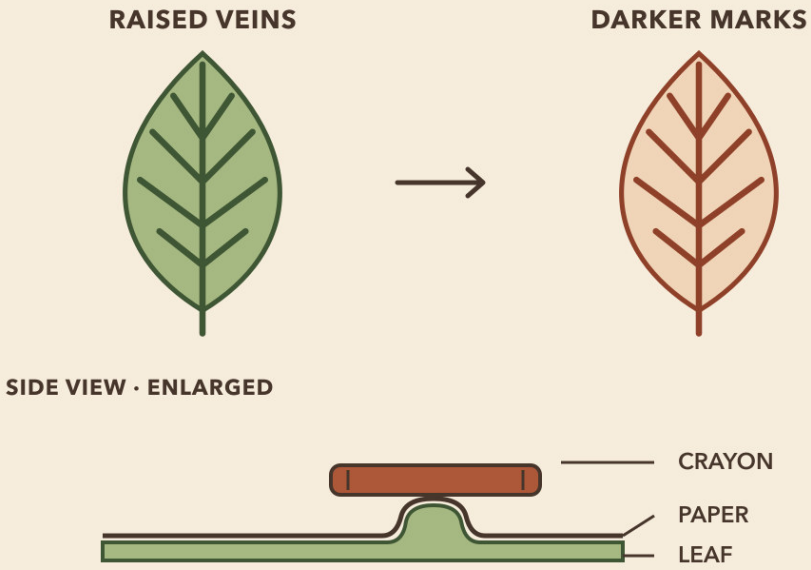


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THE PART TO REMEMBER

Little bumps. Darker marks.

Raised veins make bumps under the paper.



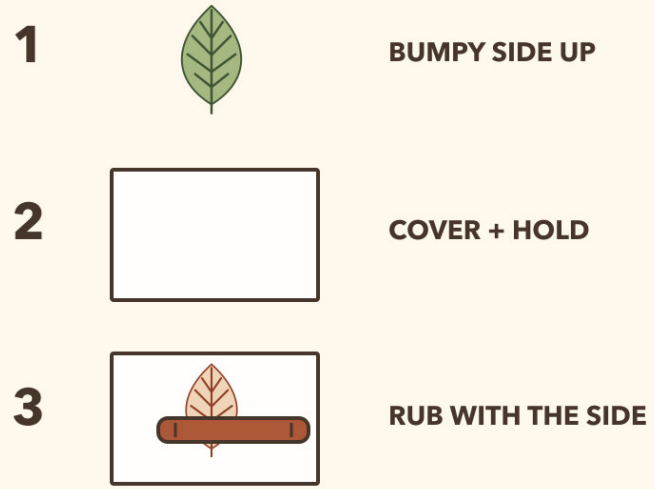
The crayon leaves darker marks there.

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TRY IT TOGETHER

Make a leaf mystery.

Leaf bumpy-side up, on a hard surface.
Cover with thin paper. Hold it still.
Rub with the side of an unwrapped crayon.



Lift the paper. Match the lines to the leaf.

With an adult: choose a safe fallen leaf.
Keep leaves and crayons out of mouths.

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KEEP THE WONDER GROWING

A little leaf.
A bigger “why?”

Read How Does It Grow?
together.



Parents: explore the story in Kiddos Books.

Kiddos Books · Read with confidence.

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07 / 07

WONDER TOGETHER · 07

Which bowl melts ice faster?

Two cubes. Two bowls.
One cool surprise.



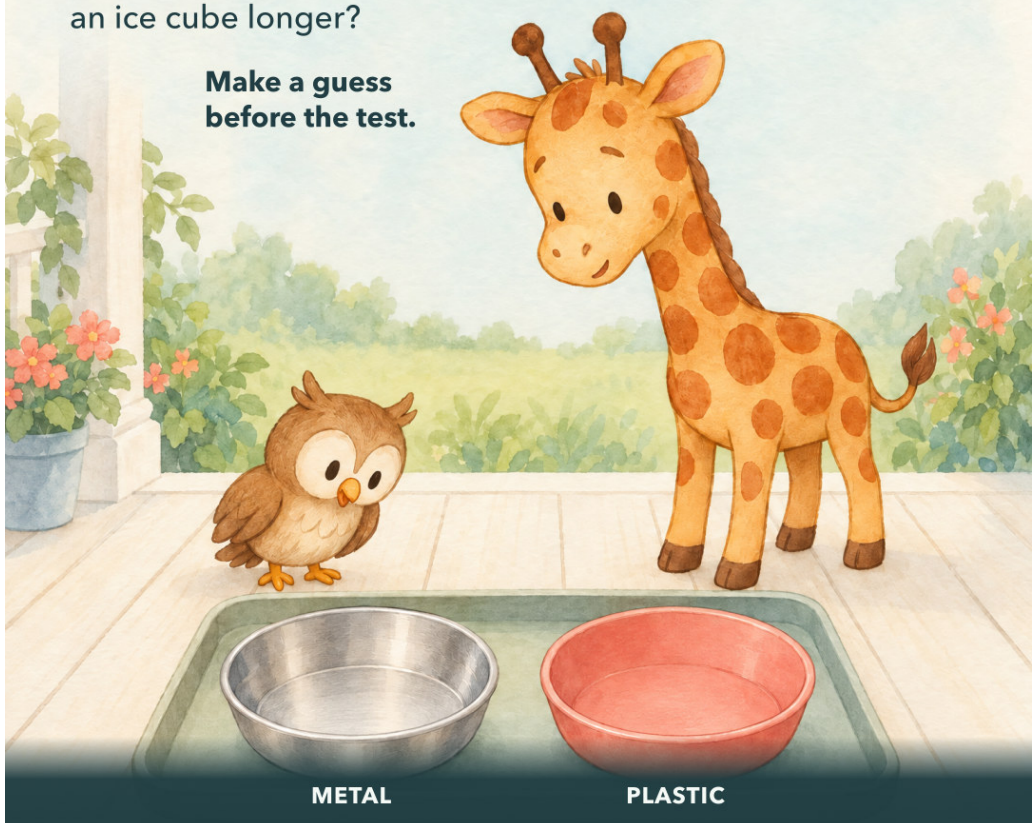
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GUESS BEFORE YOU SWIPE

Cooler to touch. Slower to melt?

Metal can feel cooler than plastic. Which bowl would you choose to keep an ice cube longer?

Make a guess before the test.



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READY, SET... WATCH

A fair start.

Gina and Ollie add
equal cubes together.
Same room. Same start.

One cube in each room-temperature bowl.



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AFTER A FEW MINUTES

The surprise? Metal!

Gina spots
the smaller cube.
The ice in metal
melts faster.

Look at the ice left in each bowl.



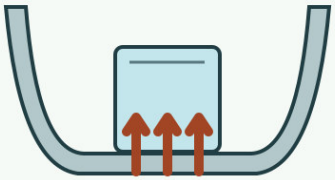
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THE PART TO REMEMBER

Heat moves. Ice melts.

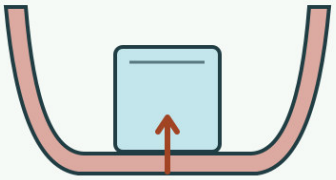
Both bowls are warmer than the ice.
Metal passes heat to it faster.

METAL



FASTER HEAT TRANSFER

PLASTIC



SLOWER HEAT TRANSFER

Metal also takes heat from your hand faster.
That is why it can feel cooler.

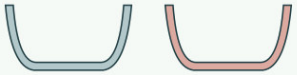
Cool to touch can still melt ice fast.

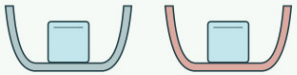
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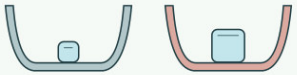
TRY IT TOGETHER

Make your own ice test.

Use similar metal and plastic bowls.
Let both reach room temperature.
Add equal ice cubes at the same time.

1  **ROOM-TEMPERATURE BOWLS**

2  **EQUAL CUBES · START TOGETHER**

3  **SIDE BY SIDE · OUT OF DIRECT SUN**

Watch together. Which cube shrinks faster?

With an adult. Keep ice out of mouths.
Wipe up spills. No heating needed.

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KEEP THE WONDER FLOWING

From an ice cube to a bigger story.

Read Where Did My Water Go?
together.



Parents: explore the story in Kiddos Books.

Kiddos Books · Read with confidence.

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07 / 07

WONDER TOGETHER · 08

Did the pencil bend?

One pencil. A little water.
A surprising new view.



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GUESS BEFORE YOU SWIPE

Just add water?

Gina leans a pencil in an empty cup.
Will adding water change
how it looks?

Make a guess. Then look closely.



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With a grown-up · Read the full adult setup in the companion guide before trying.

NOW LOOK FROM THE SIDE

It looks bent!

They add water to the same cup.
Gina spots a strange shift
at the waterline.

Trace the pencil with your eyes.



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CHECK YOUR GUESS

Still straight.

They take the pencil out.
Gina checks from end to end.
No bend. No break.

What changed: the pencil or the view?

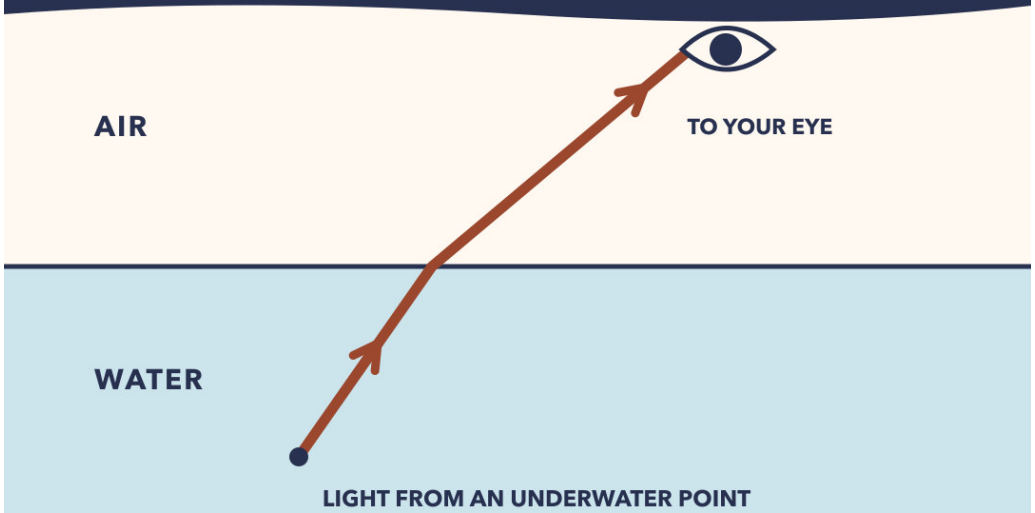


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THE PART TO REMEMBER

Light bends. Pencil doesn't.

Light can change direction
as it travels from water to air.
That changes where things appear.



One simple light path

This light-bending is called refraction.

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TRY IT TOGETHER

Look. Lift. Look again.

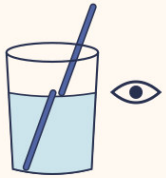
With an adult: use a clear plastic cup,
water and an unsharpened pencil.

1



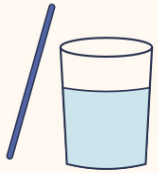
ANGLE THE PENCIL
ADD WATER · ABOUT TWO THIRDS FULL

2



LOOK FROM THE SIDE
NEAR THE WATERLINE

3



LIFT IT OUT · CHECK ITS SHAPE

You choose the view. What changes?

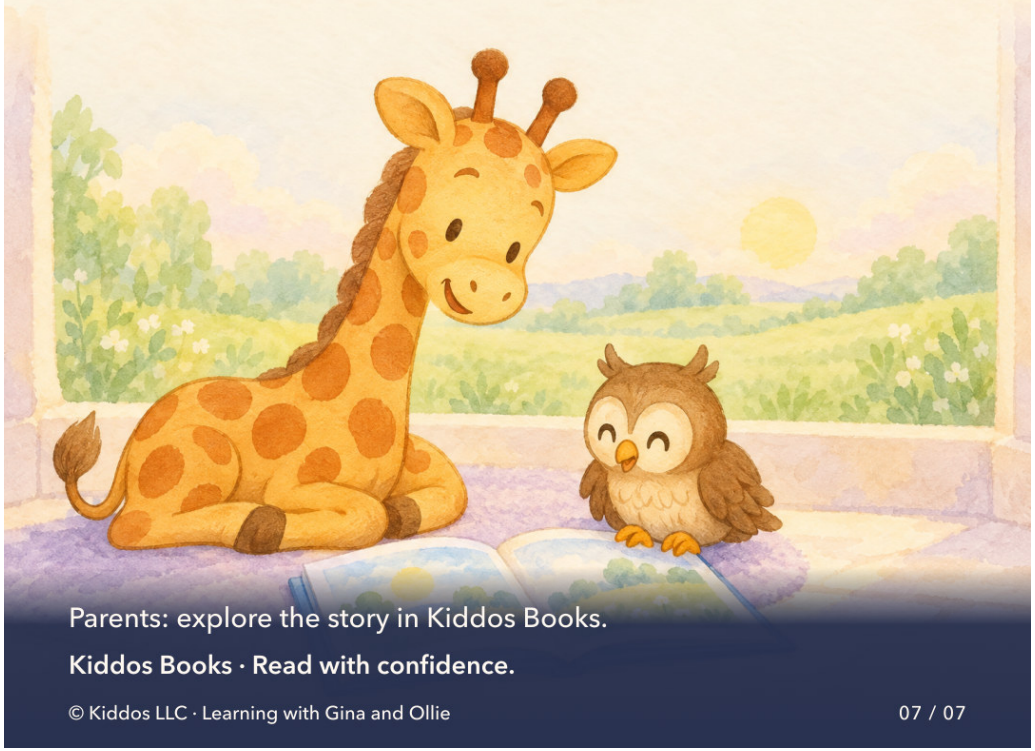
Adult pours and handles the pencil.
Keep it away from faces. Wipe up spills.

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KEEP CHASING QUESTIONS

A little light.
A lot to discover.

Read Gina and the Light Chase together.



Parents: explore the story in Kiddos Books.

Kiddos Books · Read with confidence.

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WONDER TOGETHER · 09

Will it float without its peel?

One orange.
Two surprising tests.



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GUESS BEFORE YOU SWIPE

Peel on. Peel off.

Will it float with its peel?
What about without?

Tell each other your guess.



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FIRST, KEEP THE PEEL

It floats!

Gina watches the whole orange bob.
Part stays above the water.

Look closely at the waterline.



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NOW, TAKE THE PEEL OFF

It sinks!

They peel that same orange.
This time, it sinks to the bottom.

Lighter... but it sinks?

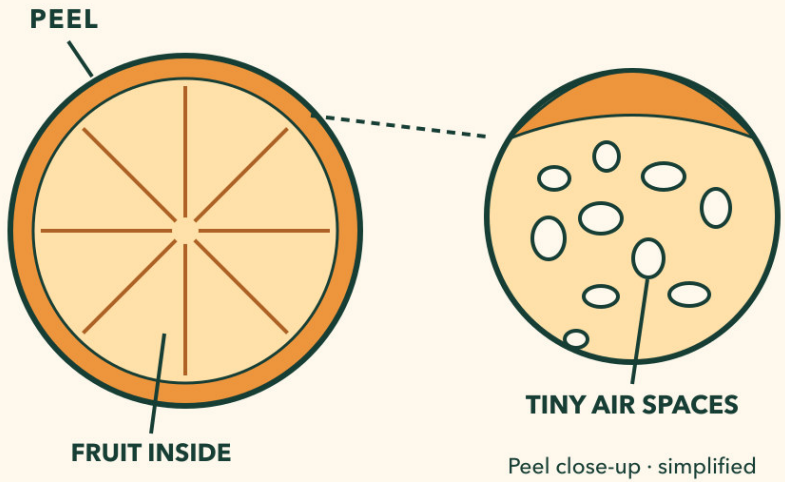


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THE PART TO REMEMBER

Air makes a difference.

The peel has tiny air spaces.
They help the whole orange float.



Peel close-up · simplified

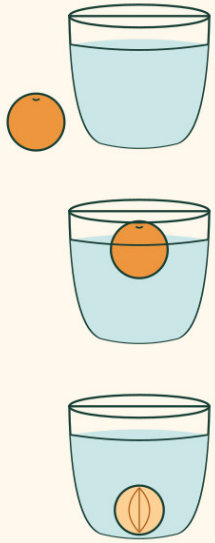
Lighter can still sink.

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TRY IT TOGETHER

Guess. Peel. Try again.

With an adult: an orange, water
and a deep, clear plastic bowl.



1 **PREDICT**

2 **TEST WITH THE PEEL**

3 **PEEL THE SAME ORANGE TEST AGAIN**

Water deep enough to cover the fruit.

Oranges vary. What does yours do?

Adult pours and peels. No tasting.
Use a stable tray. Wipe up spills.

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KEEP ASKING TOGETHER

A little orange.
A bigger question.

Next, explore Earth's pull in
Gina and the Great Gravity Hug.



Parents: read together in Kiddos Books.

Kiddos Books · Read with confidence.

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07 / 07

WONDER TOGETHER · 10

What slows the slide?

One block. One little ramp.
A towel changes the story.



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GUESS BEFORE YOU SWIPE

Bare ramp. Or towel?

Will the block slide on the bare ramp?
What if we cover it with a towel?

Share a guess before each test.



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With a grown-up · Read the full adult setup in the companion guide before trying.

FIRST, THE BARE RAMP

Down it goes!

Gina lets go without a push.
The block slides to the bottom.

Remember where it started.



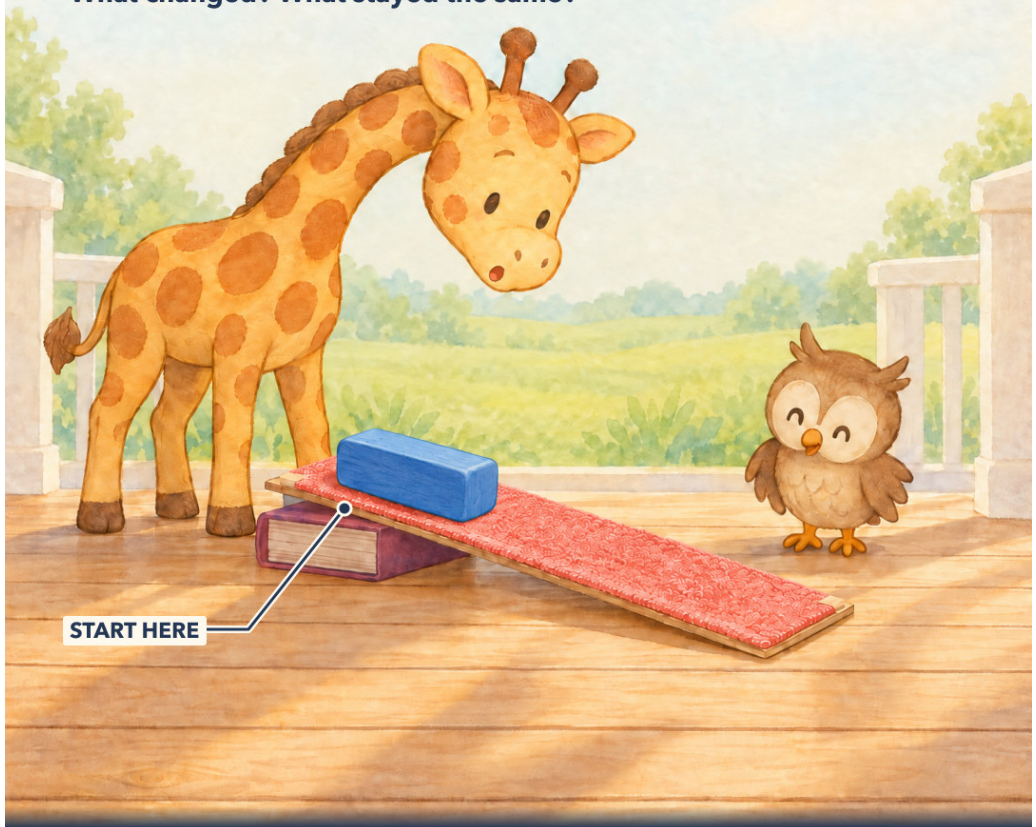
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NOW, ADD THE TOWEL

This time, it stays.

Same block. Same starting place.
They add a towel and let go again.

What changed? What stayed the same?



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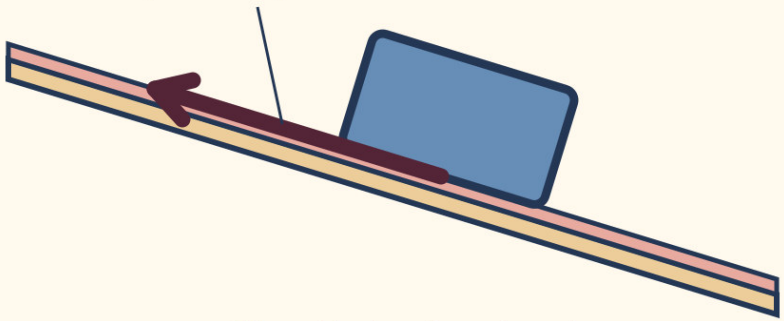
THE PART TO REMEMBER

Friction resists sliding.

Where surfaces touch, friction can slow a slide—or stop it from starting.

FRICTION

Acts up this ramp



Where block and towel touch

More grip. Less slip.

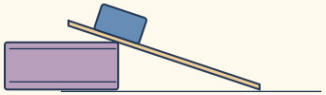
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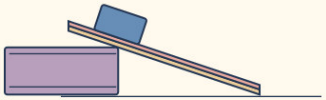
TRY IT TOGETHER

Same ramp. New surface.

With an adult: stiff cardboard, a book, a large wooden block and a towel.

1  **BUILD A LOW RAMP**

2  **RELEASE · NO PUSH**

3  **ADD A FLAT TOWEL TRY AGAIN**

Same height. Same block. Same start.

What does your block do?

Keep the ramp low, on the floor.
Adult steadies it. Keep toes clear.

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KEEP EXPLORING TOGETHER

A little slide.
A bigger question.

Explore Earth's pull in
Gina and the Great Gravity Hug.



Parents: read together in Kiddos Books.

Kiddos Books · Read with confidence.

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WONDER TOGETHER · 11

Dry paper. Underwater?

A cup. A splash.
A hidden surprise.



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GUESS BEFORE YOU SWIPE

Wet? Or dry?

Paper is tucked inside.
The opening goes down first.

What do you think will happen?



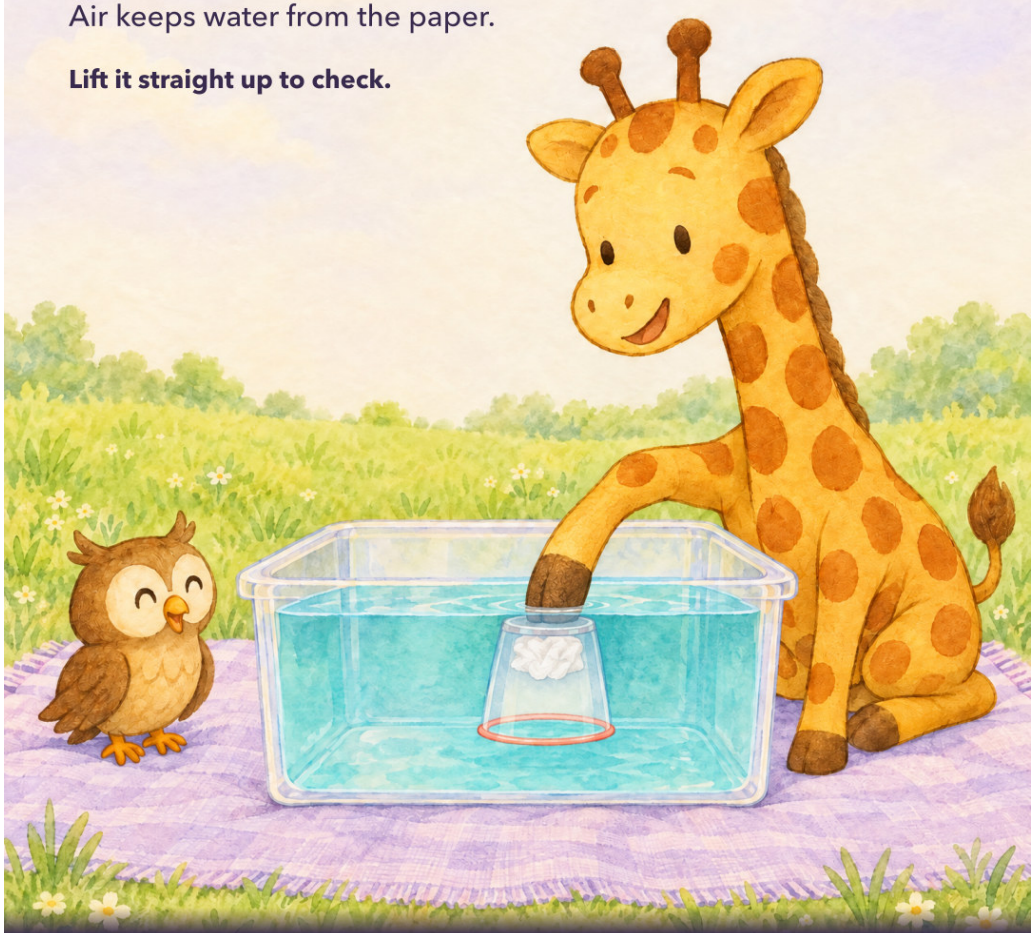
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FIRST, STRAIGHT DOWN

Still dry!

Gina lowers the cup
without tilting.
Air keeps water from the paper.

Lift it straight up to check.



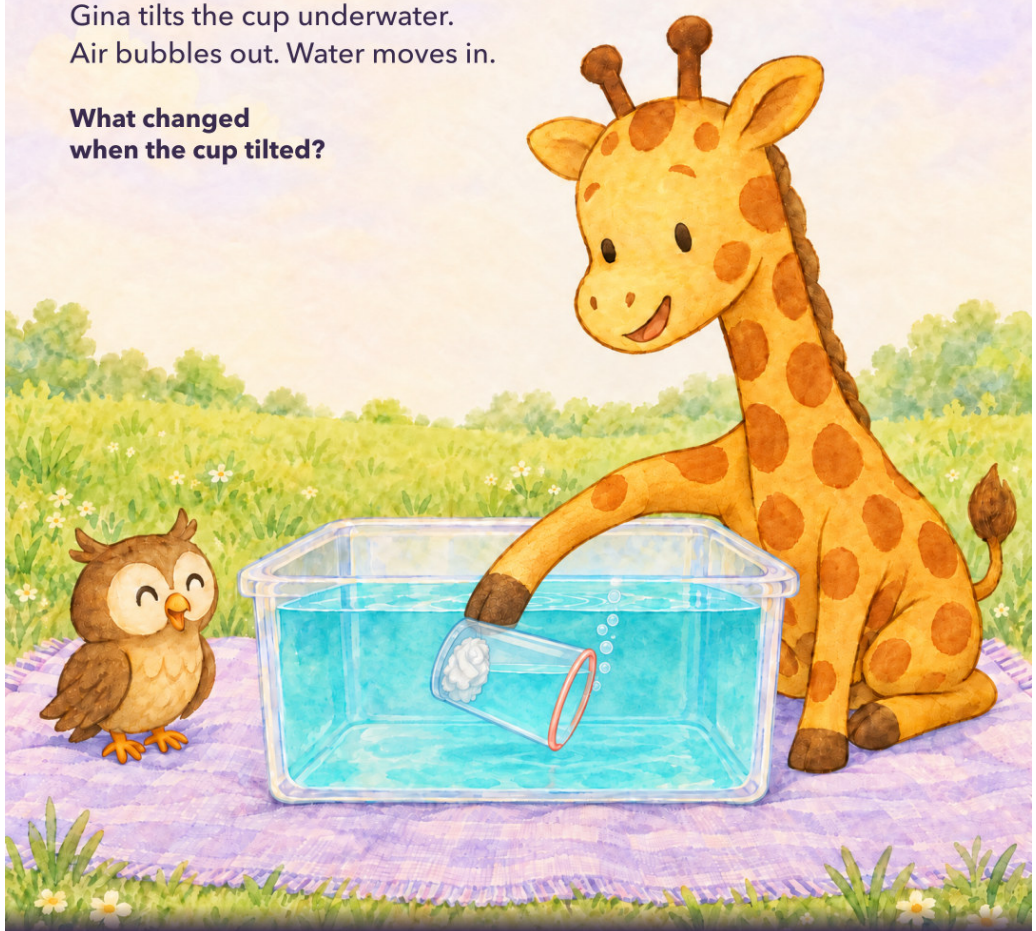
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NOW, TRY A TILT

Hello, bubbles!

Gina tilts the cup underwater.
Air bubbles out. Water moves in.

**What changed
when the cup tilted?**

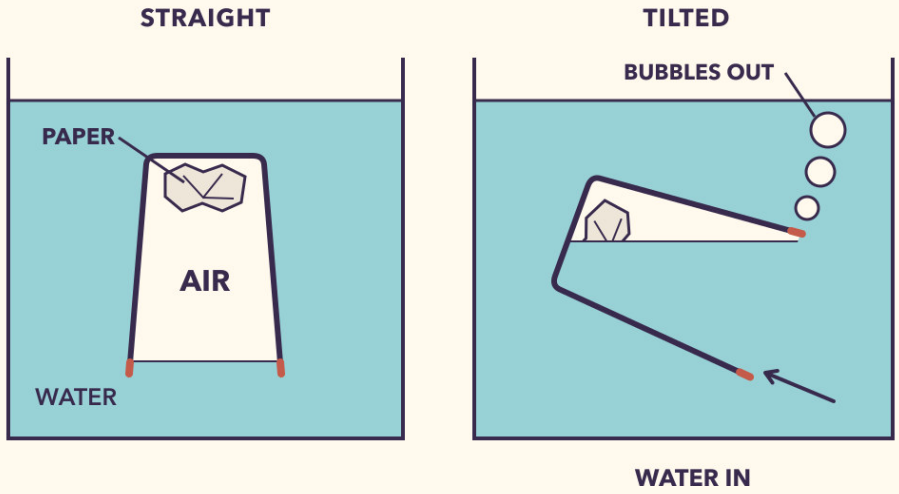


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THE PART TO REMEMBER

Air takes up space.

The cup was never empty.
Invisible air was inside.



Invisible does not mean empty.

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TRY IT TOGETHER

Catch some air.

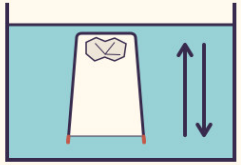
With an adult: a clear plastic cup,
paper towel and a small tub of water.

1



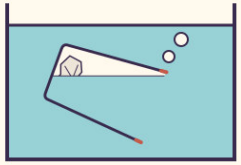
Crumple dry paper.
Wedge it firmly at a
dry cup's closed end.

2



Turn over. Down and up.
Keep straight. Dry the rim.
Check the paper.

3



Try again. Tilt underwater.
Watch for bubbles.

Predict. Try. Tell what you noticed.

Adult stays beside you. No glass.
Wipe spills. Empty the tub afterward.

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KEEP EXPLORING TOGETHER

One mystery. Another adventure.

Follow Gina's next water question in
Where Did My Water Go?



Parents: read together in Kiddos Books.

Kiddos Books · Read with confidence.

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07 / 07

WONDER TOGETHER · 12

Black ink. Secret colors?

A tiny dot.
A big surprise.



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GUESS BEFORE YOU SWIPE

Just black?

Gina made one black dot.
What might water reveal?

Share your guess before we try.



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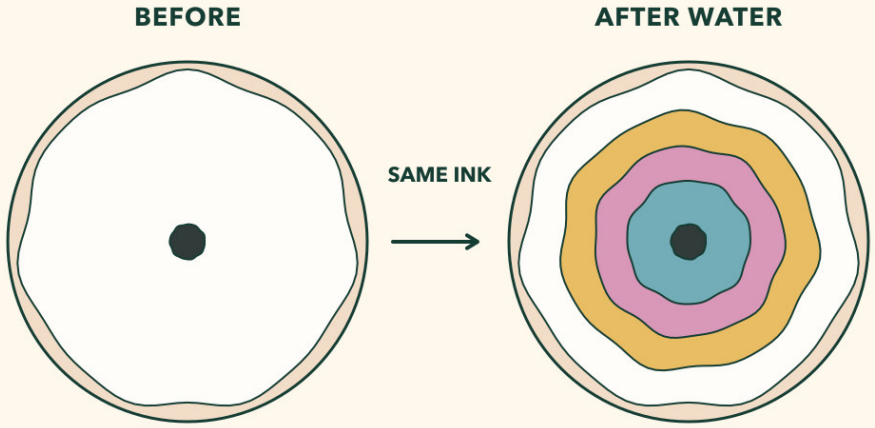

ADD WATER, THEN WATCH
Drop.
Wait. Watch.
Gina adds a few water drops. The paper starts to get wet.
Give the water time to spread.
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03 / 07


A FEW MINUTES LATER
Colors were hiding!
Some colors travel farther. Now we can see them.
Your marker may reveal different colors.
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04 / 07

THE PART TO REMEMBER

One ink.
A color mix.

Many black markers mix colored inks.
Water helps separate them.



The colors were already there.

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TRY IT TOGETHER

Reveal the colors.

With an adult: a black washable marker,
a white coffee filter, a plastic plate,
a teaspoon and a little water.



1. Make a black dot on a dry white coffee filter. Rest it on a plastic plate.
2. Drop water onto the dot. Just a few drops. Wait a few minutes.
3. What colors can you see? Try another washable marker on a fresh filter.

Notice together. Every result is a clue.

Water only. No tasting. Adult beside you.
Keep caps from mouths. Wash hands.

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KEEP EXPLORING TOGETHER

From colors to curious stories.

Explore another science surprise in The Fizzy Volcano.



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07 / 07

WONDER TOGETHER · 13

Can soap move pepper?

A tiny touch.
A surprising change.



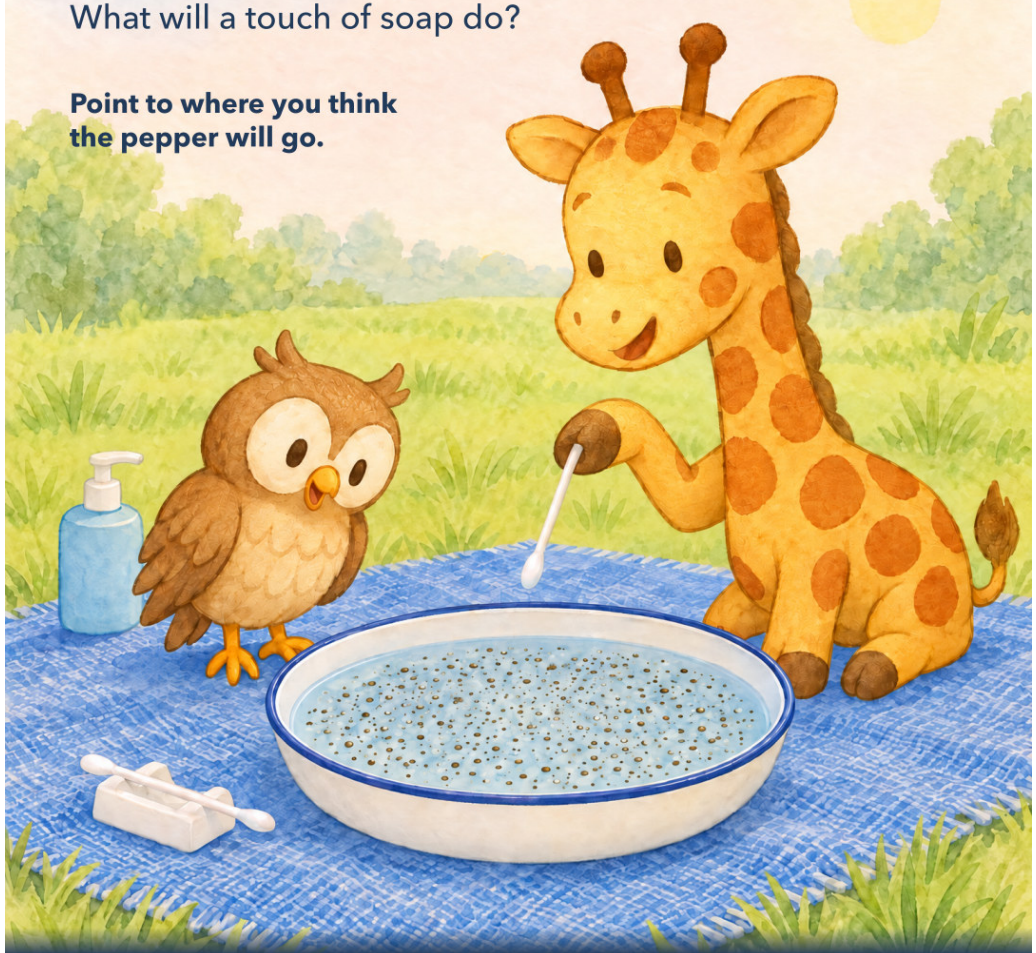
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GUESS BEFORE YOU SWIPE

Stay or scatter?

The pepper rests on water.
What will a touch of soap do?

Point to where you think the pepper will go.



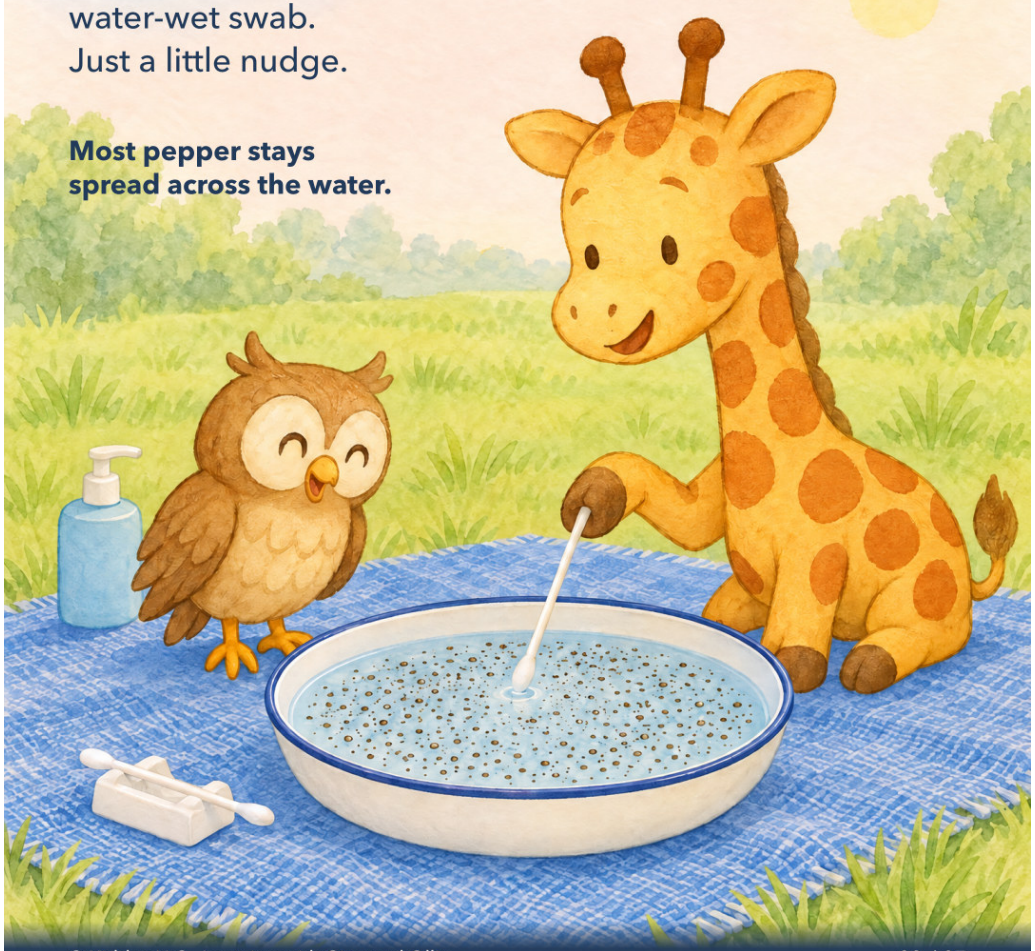
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FIRST: PLAIN WATER

A gentle touch.

Gina tries a clean,
water-wet swab.
Just a little nudge.

Most pepper stays spread across the water.



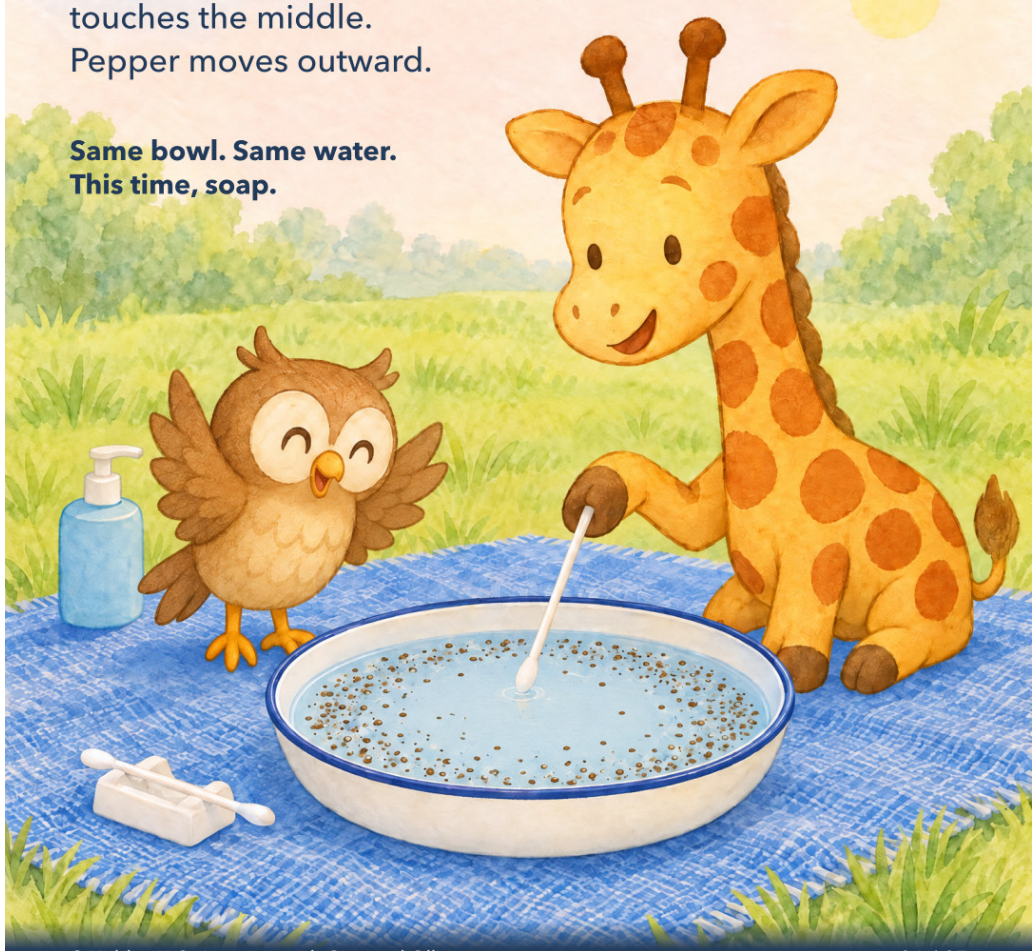
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NOW: A TINY DAB OF SOAP

There it goes!

A fresh, soapy swab
touches the middle.
Pepper moves outward.

Same bowl. Same water. This time, soap.



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With a grown-up · Read the full adult setup in the companion guide before trying.

THE PART TO REMEMBER

Soap changes the surface.

Water's surface pulls together.
Soap weakens that pull where it touches.



Moving water carries the pepper.

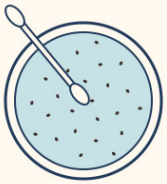
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TRY IT TOGETHER

Try the tiny touch.

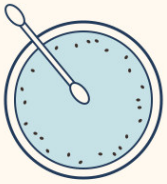
With an adult: a clean plastic bowl, water,
ground black pepper, dish soap, two cotton swabs.
Add shallow water. Let it settle.
Adult sprinkles a little pepper.

1



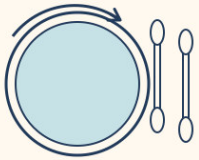
Touch the middle gently with a clean, water-wet swab. Do not stir. What happens?

2



Use a fresh swab with a tiny dab of dish soap. Touch the middle gently.

3



Rinse well. Start again with fresh water, pepper and fresh swabs.

What changed between the two touches?

Adult handles pepper and soap.
No blowing, sniffing or tasting.
Keep from eyes and mouths. Wash hands.

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KEEP EXPLORING TOGETHER

Water has more surprises.

Share another water adventure:
Where Did My Water Go?

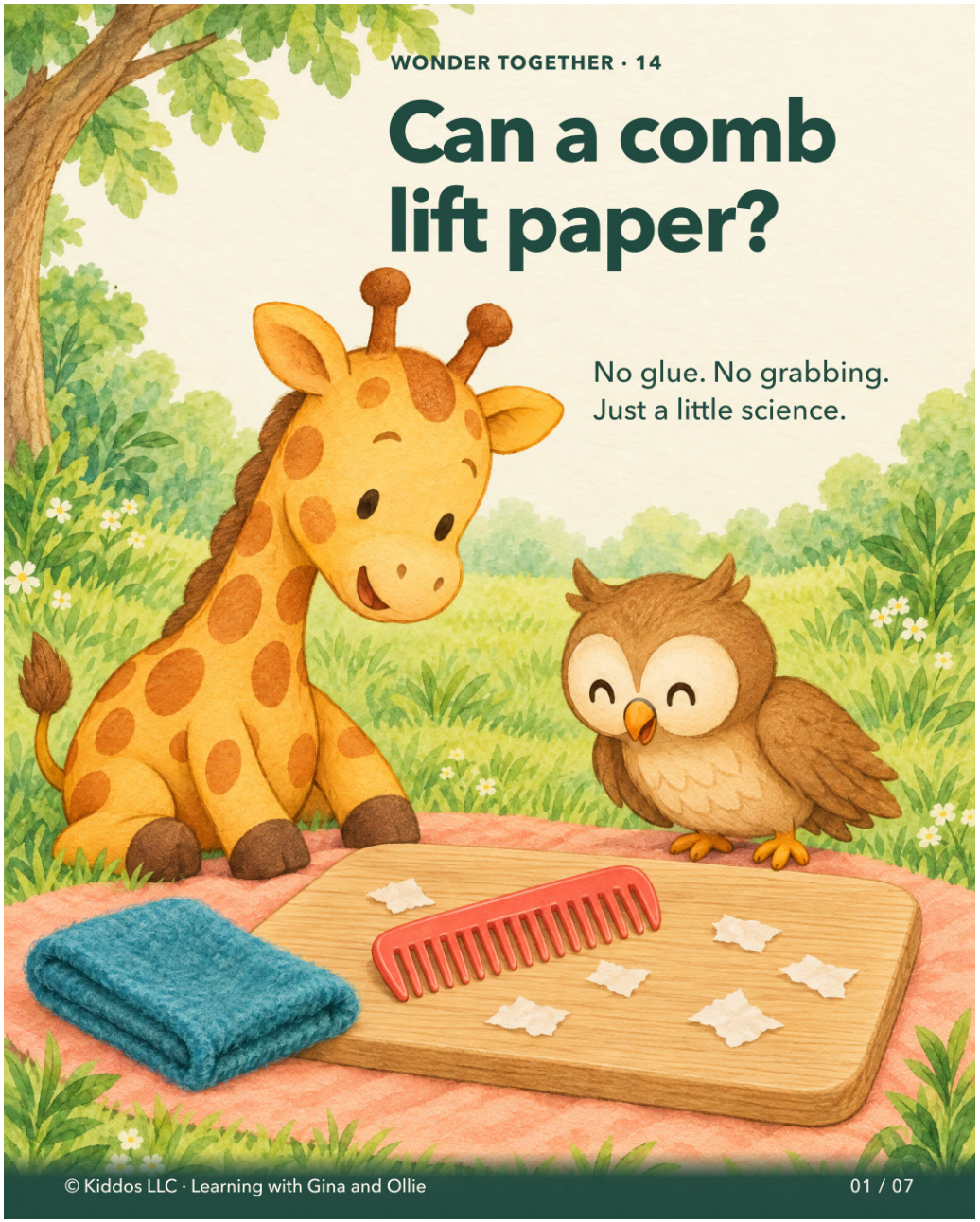


Parents: read together in Kiddos Books.

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07 / 07


WONDER TOGETHER · 14
Can a comb lift paper?
No glue. No grabbing.
Just a little science.
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01 / 07


GUESS BEFORE YOU SWIPE
Will it move?
First, Gina holds the comb close.
The paper stays on the board.
What might happen after rubbing the comb?
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02 / 07

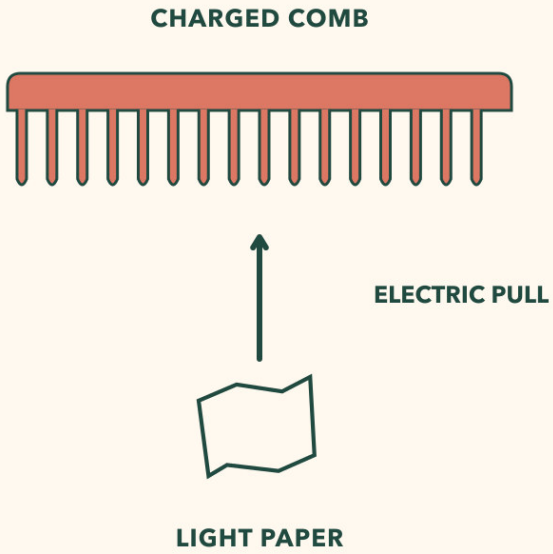

CHANGE ONE THING
Rub. Then try again.
Gina rubs the same plastic comb on a dry wool cloth.
Same comb. Same paper. A new test.
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03 / 07


LOOK AT THE GAP
Up it comes!
Back above the paper... some pieces lift toward the comb.
It pulls before they touch.
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04 / 07

THE PART TO REMEMBER

An invisible pull.

Rubbing can give the comb
a static electric charge.
That charge can attract light paper.



Attract means pull closer.

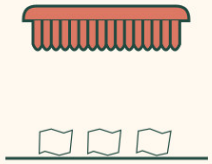
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TRY IT TOGETHER

Try the paper lift.

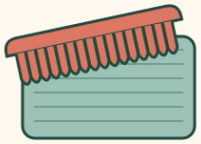
With an adult: a dry plastic comb, wool cloth
and small torn pieces of single-layer tissue.
Use a dry, flat surface away from breezes.

1



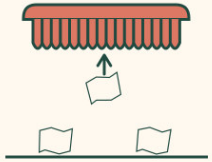
Hold the comb just above
the paper without touching.
What do you notice?

2



Rub the comb on dry wool
several times, away from
the paper.

3

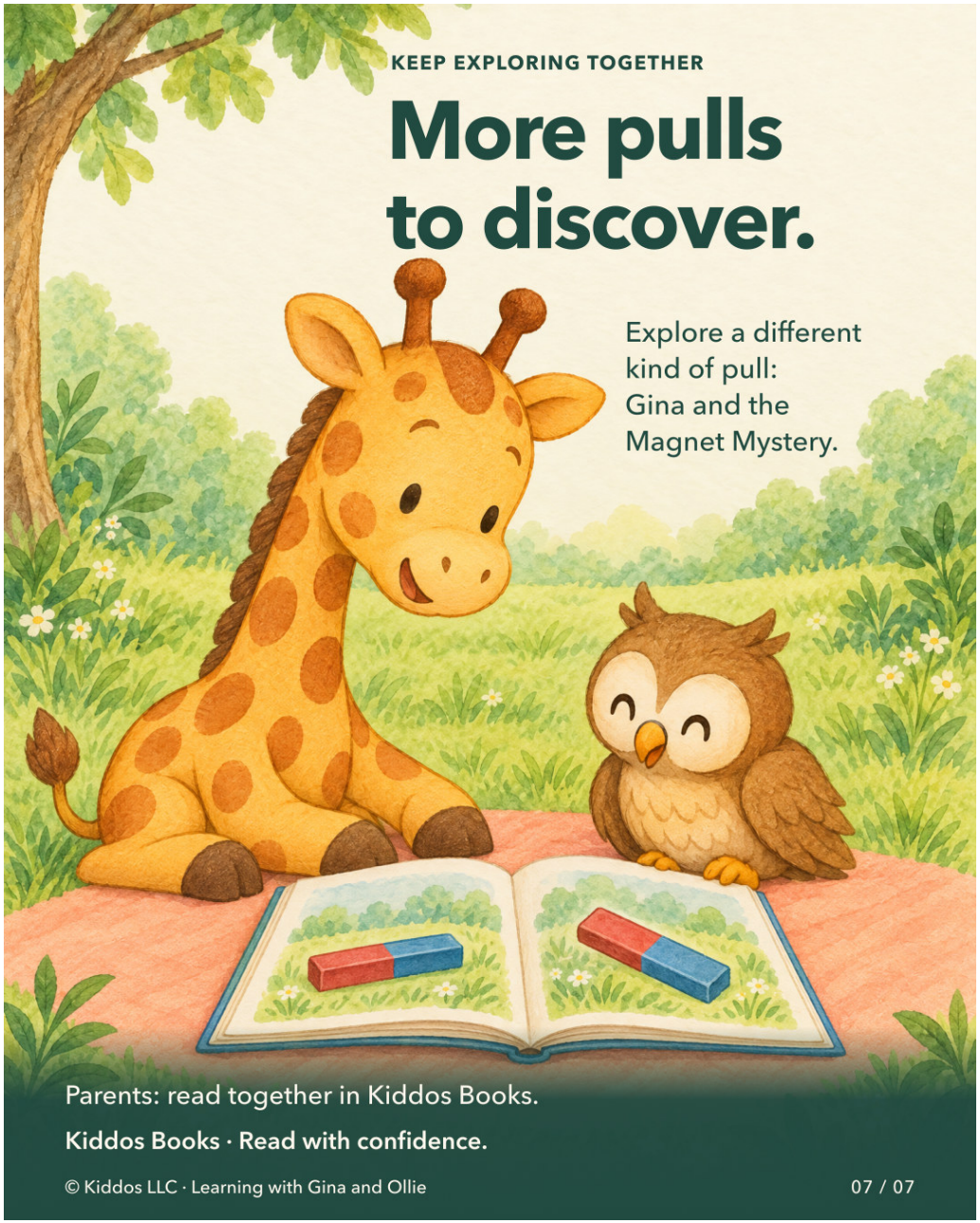


Bring it back just as close.
Keep it still. Watch, compare,
then rub again to retry.

What changed after rubbing?

Adult stays close. No blowing or tasting.
Keep pieces away from faces; collect them after.

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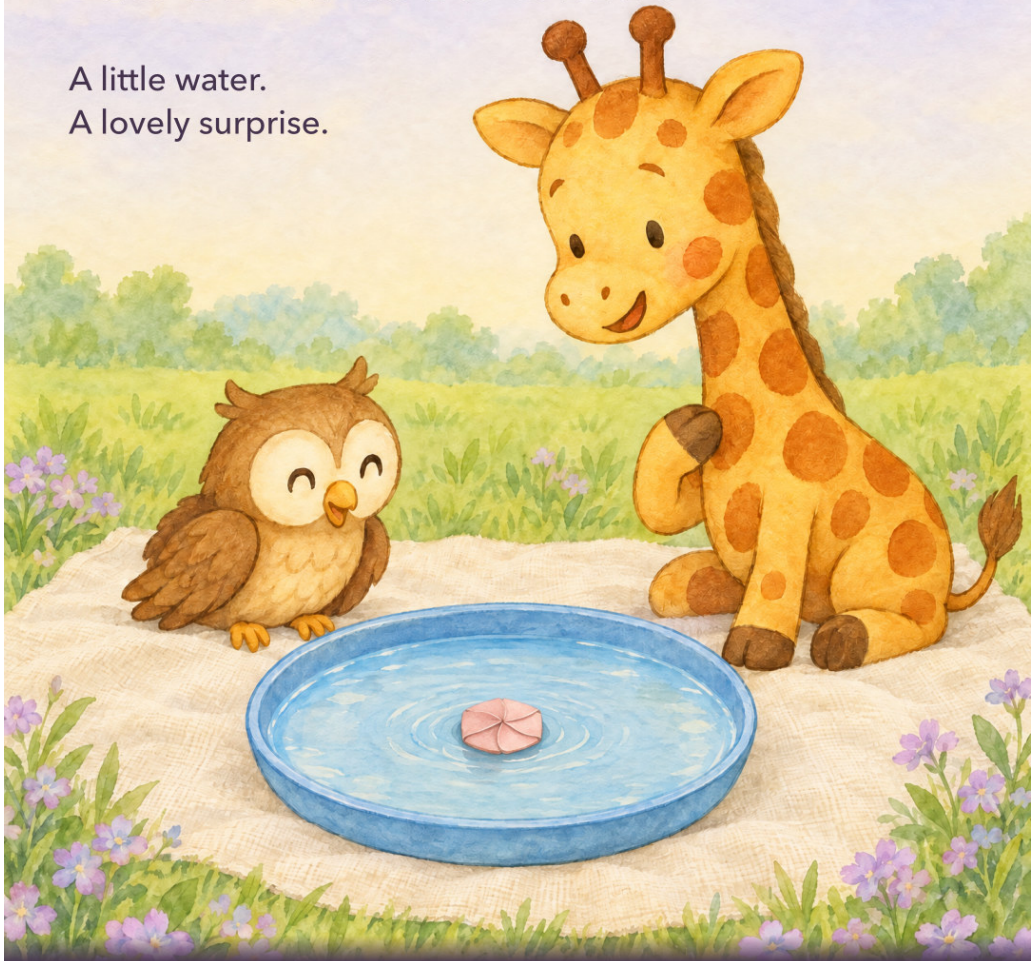
Discovery 14 · Page 7/7 · Ages 5–7

With a grown-up · Read the full adult setup in the companion guide before trying.

WONDER TOGETHER · 15

Can a paper flower bloom?

A little water.
A lovely surprise.



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With a grown-up · Read the full adult setup in the companion guide before trying.

GUESS BEFORE YOU SWIPE

Stay shut… or open?

Gina has folded the petals in.
What will water change?

Make a guess together.



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TRY ONE SMALL CHANGE

Float. Then wait.

Gina sets it on the water,
folded petals facing up.

Look closely. Give it time.



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WATCH WHAT CHANGES

Hello, petals!

The folds relax.
The petals open out.

Same paper. A new shape.

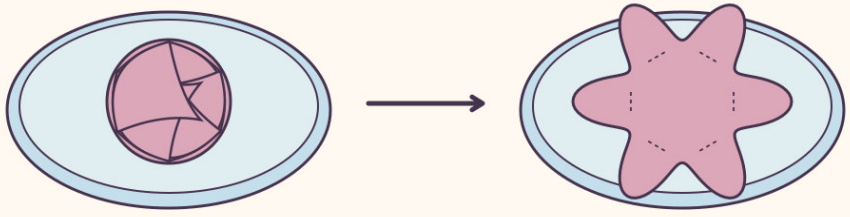


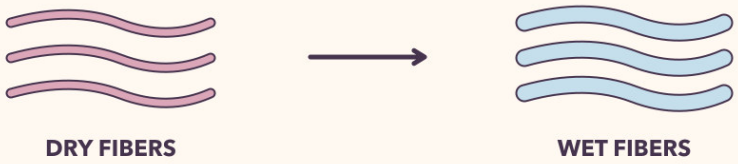
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THE PART TO REMEMBER

Water wakes the folds.

Paper has tiny fibers.
They take in water and swell.
The folds can relax and open.





Simplified view

It unfolds. It does not grow.

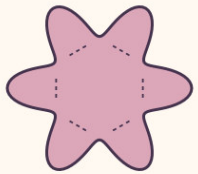
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TRY IT TOGETHER

Make a paper bloom.

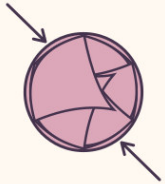
With an adult: plain paper, scissors,
a shallow unbreakable dish and cool water.

1



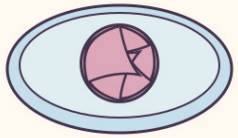
Ask an adult to cut a flower with broad, separate petals. Plain printer paper works.

2



Fold each petal inward over the center. Keep the folds gentle; no glue.

3



Add shallow water to the dish. Float the flower, folds up. Wait without pushing petals.

Which petal opens first?

Adult handles scissors and stays close.
Wipe spills; empty the dish when finished.

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KEEP EXPLORING TOGETHER

Paper unfolds. Plants grow.

Meet a real growing plant in How Does It Grow?



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07 / 07

WONDER TOGETHER · 16

Where did the sugar go?

A little stir.
A see-through mystery.

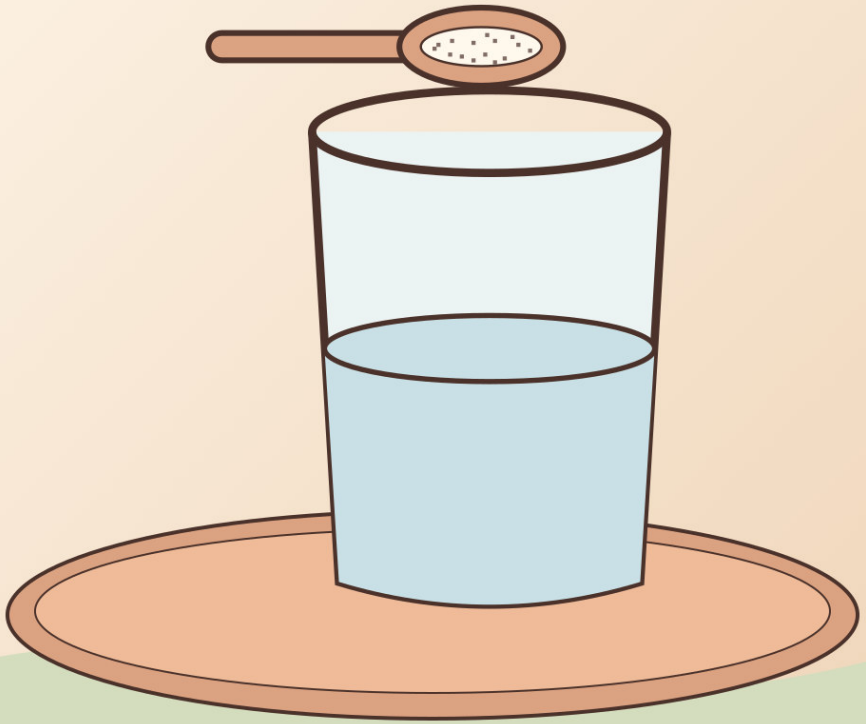


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GUESS BEFORE YOU SWIPE

Will we still see the grains?

Gina has a little sugar.
What will happen in water?
Make a guess together.



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LET'S TRY IT

In goes the sugar.

Gina adds it and stirs gently.
Look for the white grains.
Watch the bottom of the cup.



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LOOK AGAIN

Clear again!

Now we cannot see the grains.
The sugar has dissolved.
It is still in the water.

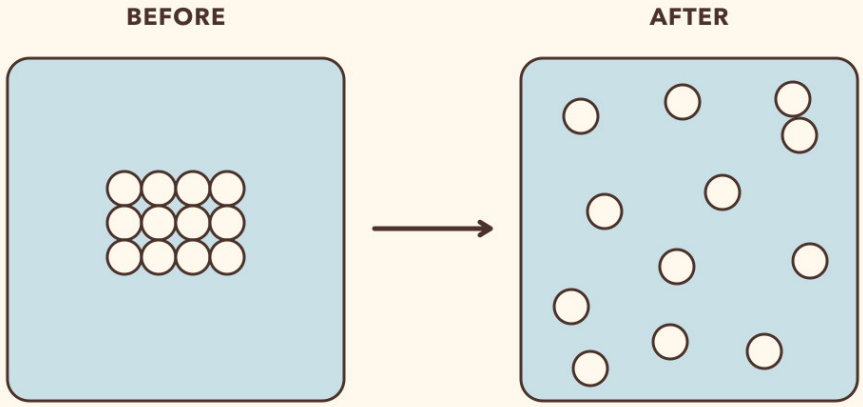


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THE PART TO REMEMBER

Too small to see. Still there.

Sugar is made of tiny particles.
In water, they separate
and spread out.



○ **Sugar particles**

Not to scale. Water particles not shown.

Dissolving is not disappearing.

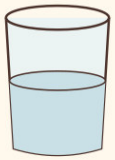
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TRY IT TOGETHER

Make a clear mystery.

With an adult: sugar, a teaspoon,
a clear unbreakable cup and cool water.

1



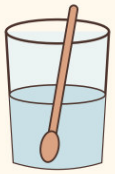
Pour half a cup of cool water
into a clear unbreakable cup.
Keep it on a level tray.

2



Add one level teaspoon
of ordinary white sugar.
Look for the grains.

3



Stir gently. Pause and look.
Keep stirring until the grains
are no longer visible.

What changed? What stayed?

Adult stays close. No tasting.
Wipe spills; empty and wash up afterward.

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KEEP EXPLORING TOGETHER

Another cup. Another mystery.

Follow water's journey in
Where Did My Water Go?



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07 / 07

WONDER TOGETHER · 17

What grows first?

A tiny bean.
A slow surprise.



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GUESS BEFORE YOU SWIPE

Root or shoot?

Before we begin, make a guess.
Which will appear first?

Point to your prediction.



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LET'S TRY IT

A little look. Every day.

Gina checks her bean in damp paper.
At first, no root is showing.

Keep the paper damp, not flooded.



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LOOK AGAIN

A root comes first.

Days later, a pale root appears.
The shoot will follow.

Your bean may take longer.

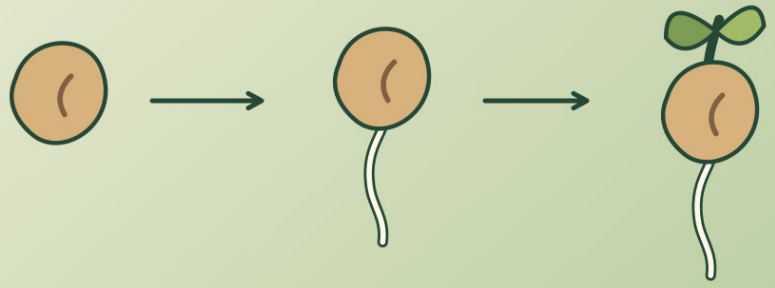


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THE PART TO REMEMBER

First a root. Then a shoot.

The root takes in water.
The shoot grows toward the light.



SEED

FIRST
ROOT

LATER
SHOOT

Simplified growth sequence

Growing takes time.

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TRY IT TOGETHER

Watch a bean wake.

With an adult: a whole dried bean,
clear plastic cup, paper towel and water.

1. Adult tucks the bean between damp paper and the open cup wall.
2. Keep warm, bright and damp. Avoid hot direct sun.
3. Look daily. Draw the first root. Keep watching for a shoot.



Draw one thing you notice each day.

Adult handles the bean. No tasting.
Keep out of little ones' reach; wash hands.

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KEEP EXPLORING TOGETHER

Small seed. Big story.

Share Gina's growing adventure in How Does It Grow?



Parents: read together in Kiddos Books.

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07 / 07

WONDER TOGETHER · 18

Can you spot the wind?

We cannot see air.
What could give it away?



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GUESS BEFORE YOU SWIPE

Hang or flutter?

Hold one end of a paper strip.
What might a breeze do?

Make a guess.
Then go outside.



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LET'S TRY IT

First, hold still.

In a calm spot, Gina's strip hangs.
She keeps her hoof still.

Watch the loose end.



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LOOK AGAIN

Then comes a breeze.

The same strip lifts and flutters.
Gina's hoof stays still.

Moving air is pushing the paper.

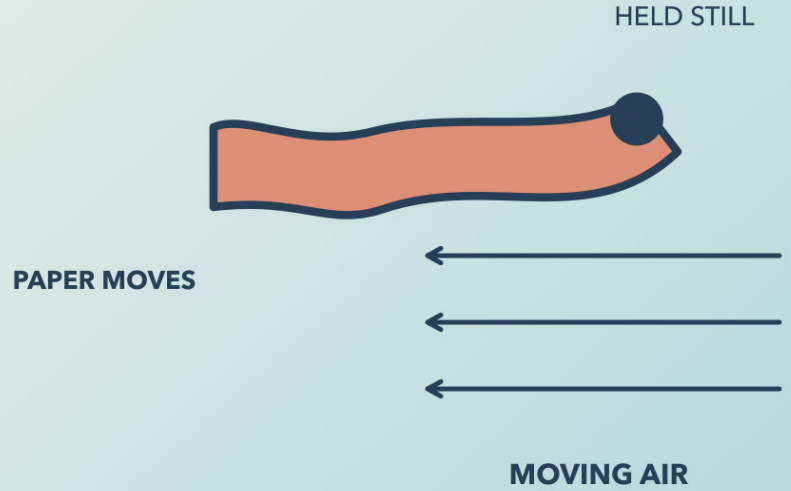


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THE PART TO REMEMBER

Wind is moving air.

We can spot what it moves:
paper, leaves and grass.



Arrows show air movement

The moving paper is a clue.

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TRY IT TOGETHER

Be a wind watcher.

With an adult: one short paper strip
and a safe outdoor spot.

1. Adult tears a short paper strip.
   Hold one end away from your face.
2. Keep your hand still outside.
   Watch calm air, then a breeze.
3. Point, say or draw the change.
   No breeze? Try another day.



What else moves when a breeze comes?

Adult stays close. Skip stormy weather.
Hold the strip; bring it back inside.

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KEEP EXPLORING TOGETHER

Keep watching the sky.

Follow a different weather story in Where Did My Water Go?



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07 / 07

WONDER TOGETHER · 19

Same leaf. Different numbers?

Gina has one long leaf.
How long is it?



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GUESS BEFORE YOU SWIPE

More or fewer?

If we use bigger measuring pieces,
will we need more or fewer?
The leaf will stay the same.



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LET'S TRY IT

Six small units.

Line up equal pieces end to end.
No gaps. No overlaps.
Start and finish at the leaf's ends.



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LOOK AGAIN

Three big units.

Each big piece is twice as long.
The same leaf needs only three.
The leaf did not shrink.

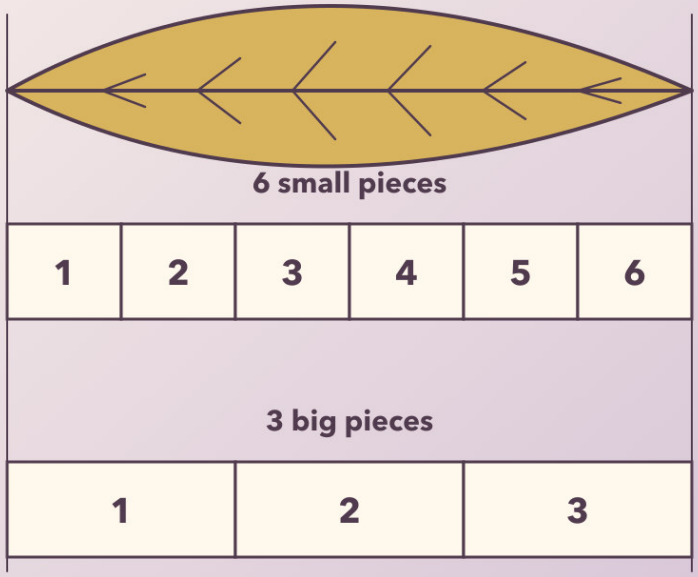


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THE PART TO REMEMBER

Name your unit.

A number needs its measuring unit:
six small pieces, or three big ones.



Bigger units. Fewer pieces.

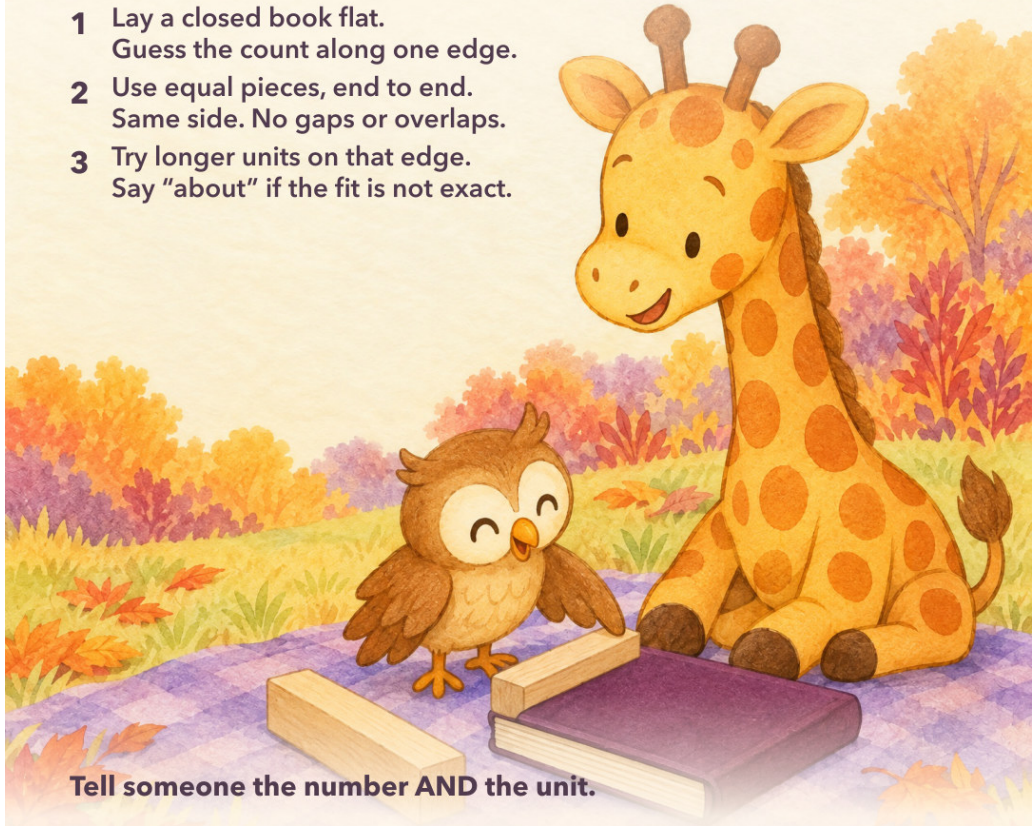
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TRY IT TOGETHER

Measure it your way.

With an adult: a book and two sets
of matching blocks, one set longer.

1. Lay a closed book flat.
   Guess the count along one edge.
2. Use equal pieces, end to end.
   Same side. No gaps or overlaps.
3. Try longer units on that edge.
   Say "about" if the fit is not exact.



Tell someone the number AND the unit.

Use large blocks without loose parts.
An adult helps line up and count.

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KEEP EXPLORING TOGETHER

What else can we measure?

Explore another kind of measuring in Ollie Teaches Time.



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07 / 07

WONDER TOGETHER · 20

Does shiny mean magnetic?

Meet our magnet.
Will it stick to both trays?



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GUESS BEFORE YOU SWIPE

Both, one or neither?

Which tray will our magnet stick to?

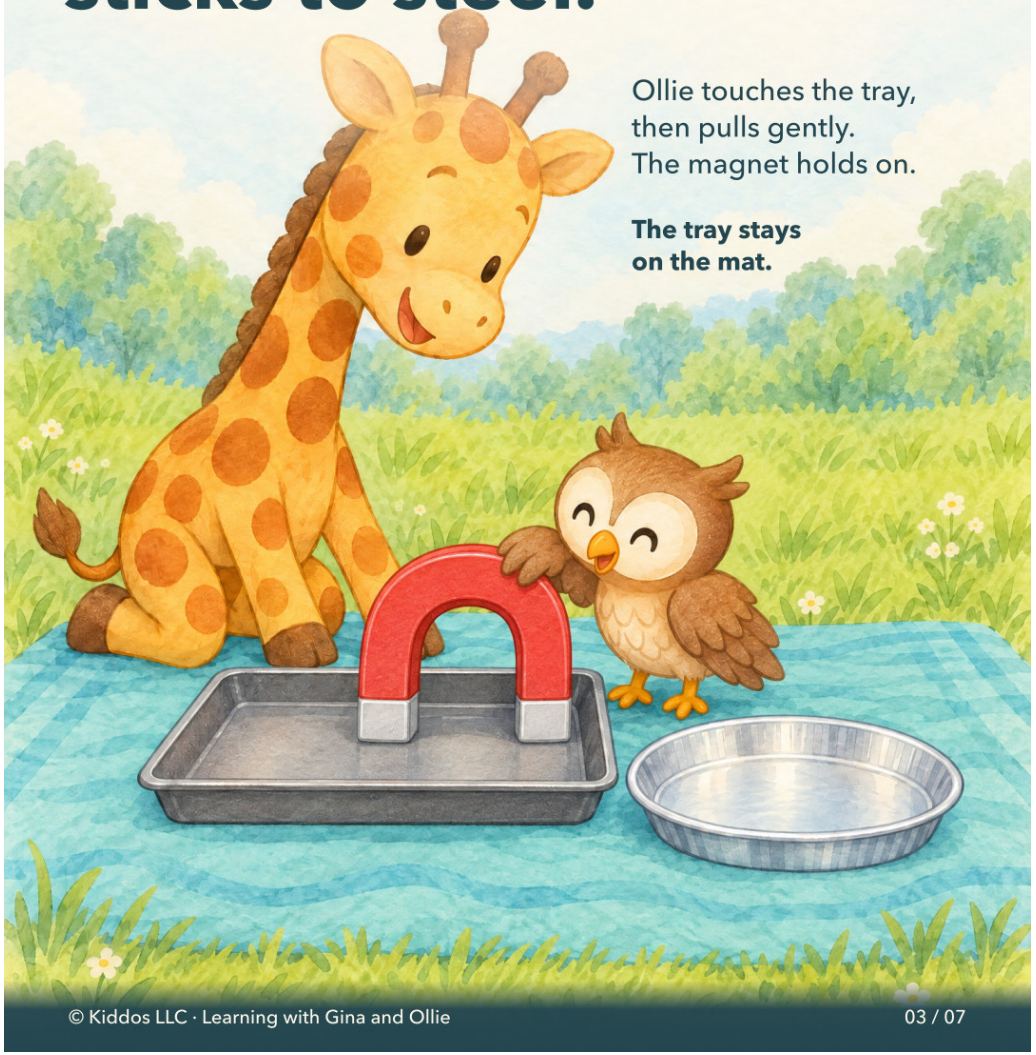
Make a guess.
Then swipe to test.



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LET'S TRY IT

The magnet sticks to steel.



Ollie touches the tray,
then pulls gently.
The magnet holds on.

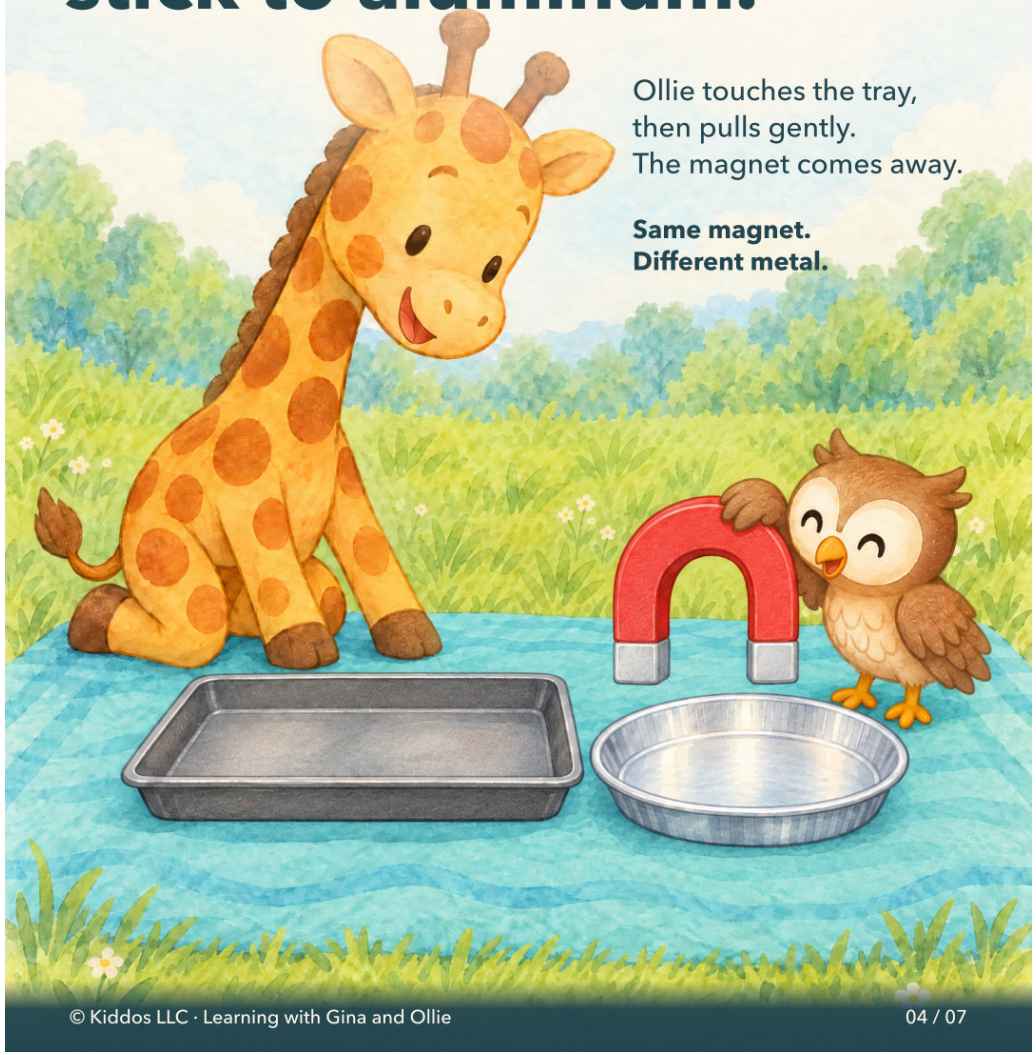
The tray stays on the mat.

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With a grown-up · Read the full adult setup in the companion guide before trying.

LOOK AGAIN

The magnet does not stick to aluminum.



Ollie touches the tray,
then pulls gently.
The magnet comes away.

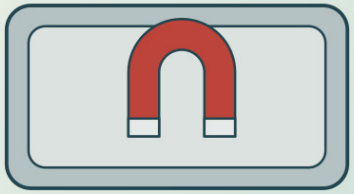
**Same magnet.
Different metal.**

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THE PART TO REMEMBER

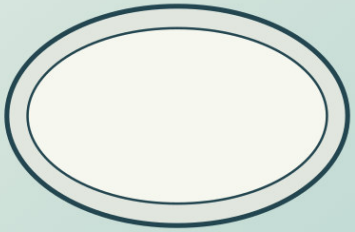
Shiny does not tell us.

A magnet sticks to some metals.
A test tells us which.



STEEL TRAY

STICKS



ALUMINUM TRAY



DOES NOT STICK

Same magnet; different metal

Predict. Test. Change your mind.

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TRY IT TOGETHER

Try a magnet test.

Child predicts. Adult tests.



1 Check: large, intact, enclosed toy magnet.

2 Touch steel. Pull gently.

3 Try aluminum. Then put it away.

Use smooth, cool trays.
No small, loose or high-powered magnets.
Keep from mouths. Adult stores the magnet.

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KEEP EXPLORING TOGETHER

A pull. A push. A new question.

Share the next discovery in Gina and the Magnet Mystery.



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