Predict and compare

Kiddos World · Exploration Library · Stories to explore together

02 Same paper. Different fall. — Story sheets 1–4

10 What slows the slide? — Story sheets 5–8

07 Which bowl melts ice faster? — Story sheets 9–12

09 Will it float without its peel? — Story sheets 13–16

01 Little owl. Giant shadow. — Story sheets 17–20

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

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.

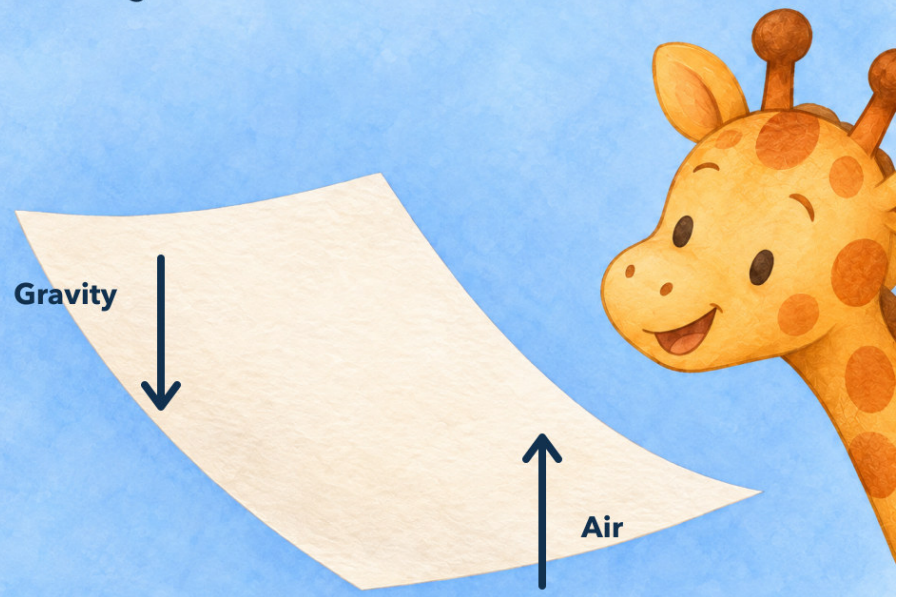
Same paper. Same drop. New shape.

04 / 07

THE PART TO REMEMBER

Air slows the wide sheet more.

Gravity pulls it down.
Air pushes against its fall.

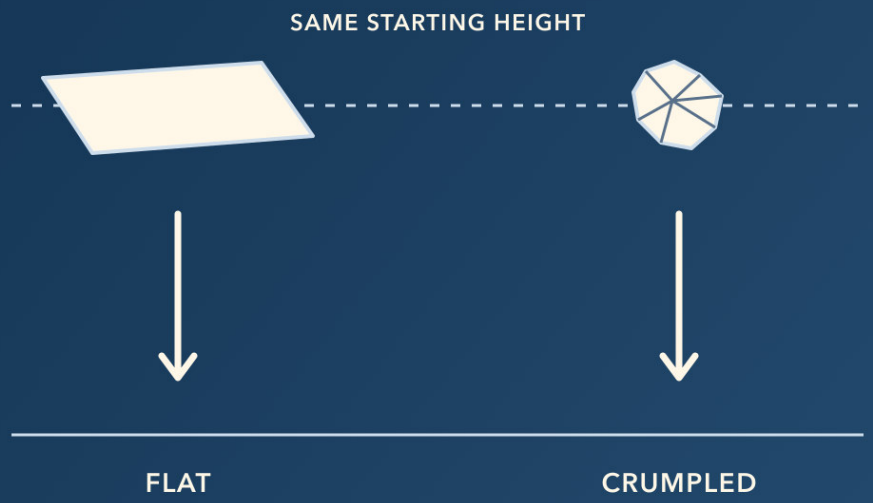


Changing the shape changes the fall.

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.

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 · 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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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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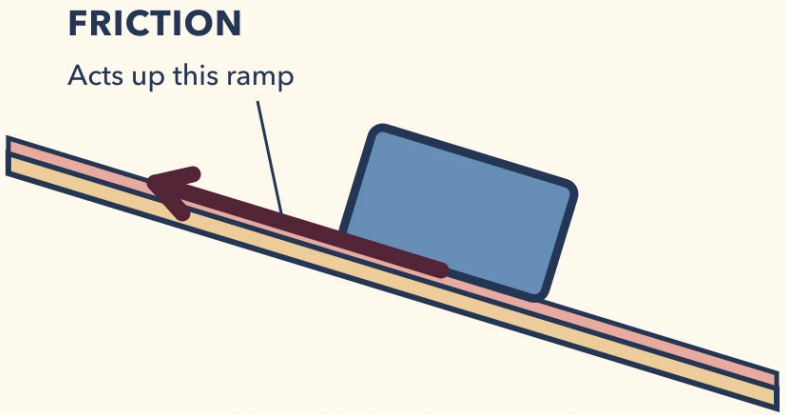
THE PART TO REMEMBER

Friction resists sliding.

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



More grip. Less slip.

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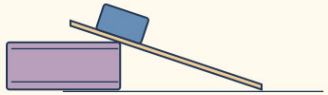
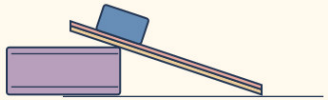
TRY IT TOGETHER

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.

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WONDER TOGETHER · 07

Which bowl melts ice faster?

Two cubes. Two bowls.
One cool surprise.

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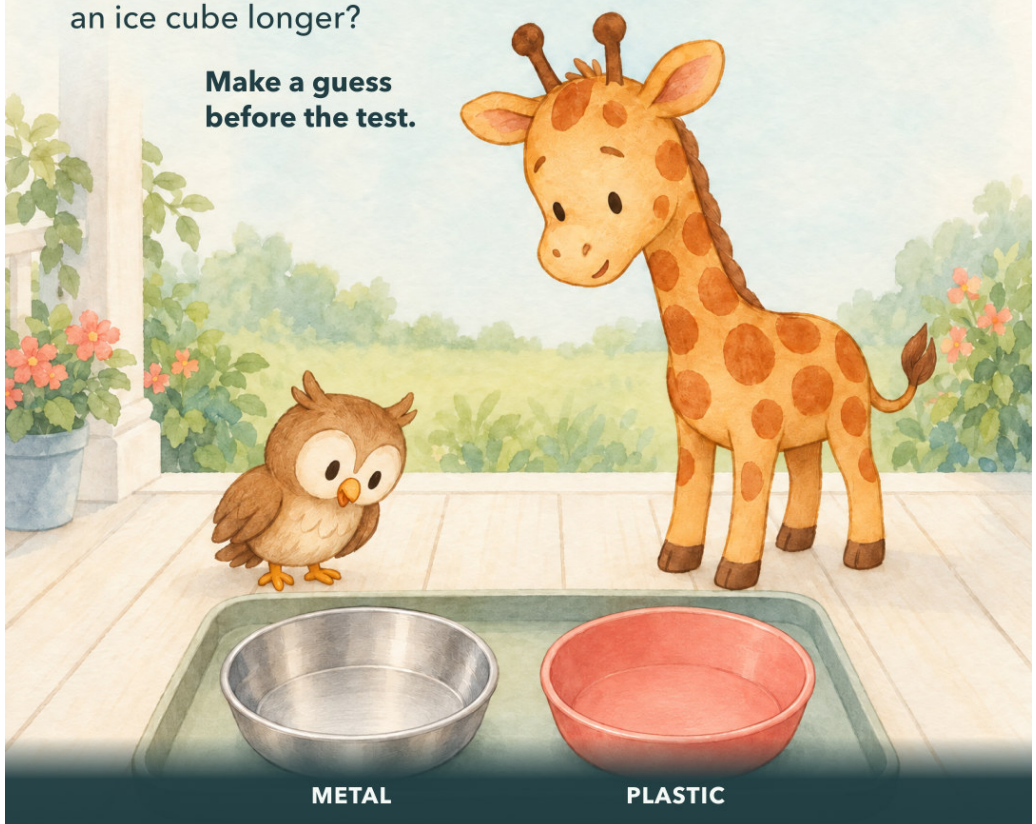
GUESS BEFORE YOU SWIPE

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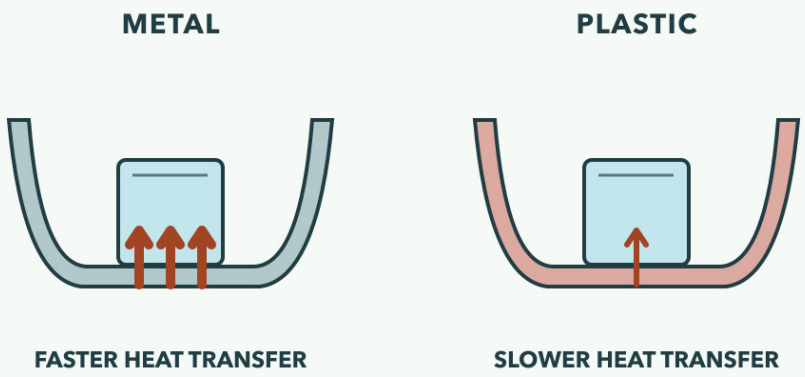
With a grown-up · Read the full adult setup in the companion guide before trying.

THE PART TO REMEMBER

Heat moves. Ice melts.

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



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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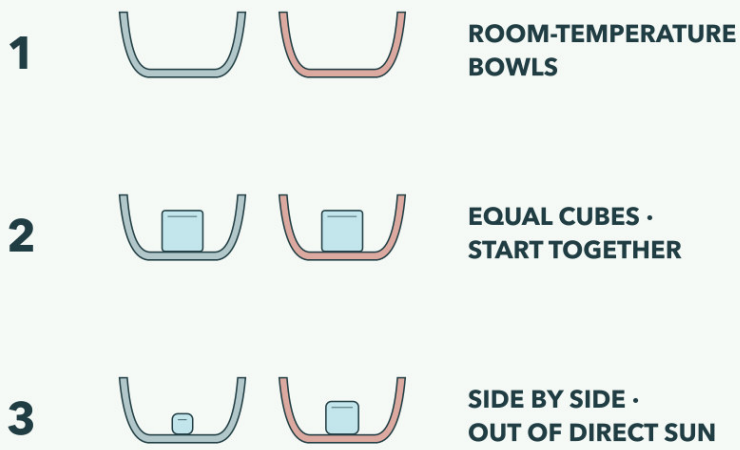
TRY IT TOGETHER

Make your own ice test.

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



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.

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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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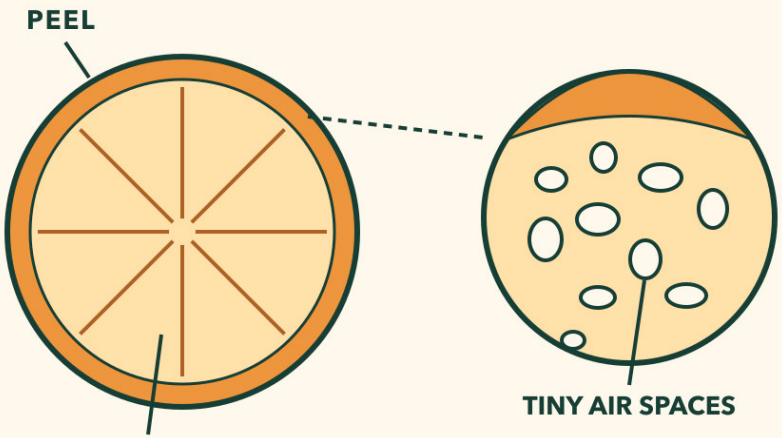
THE PART TO REMEMBER

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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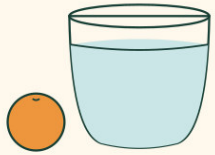
TRY IT TOGETHER

Guess. Peel. Try again.

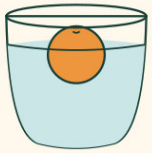
With an adult: an orange, water
and a deep, clear plastic bowl.

1



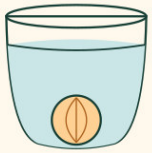
PREDICT

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.

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WONDER TOGETHER · 01

Little owl. Giant shadow.

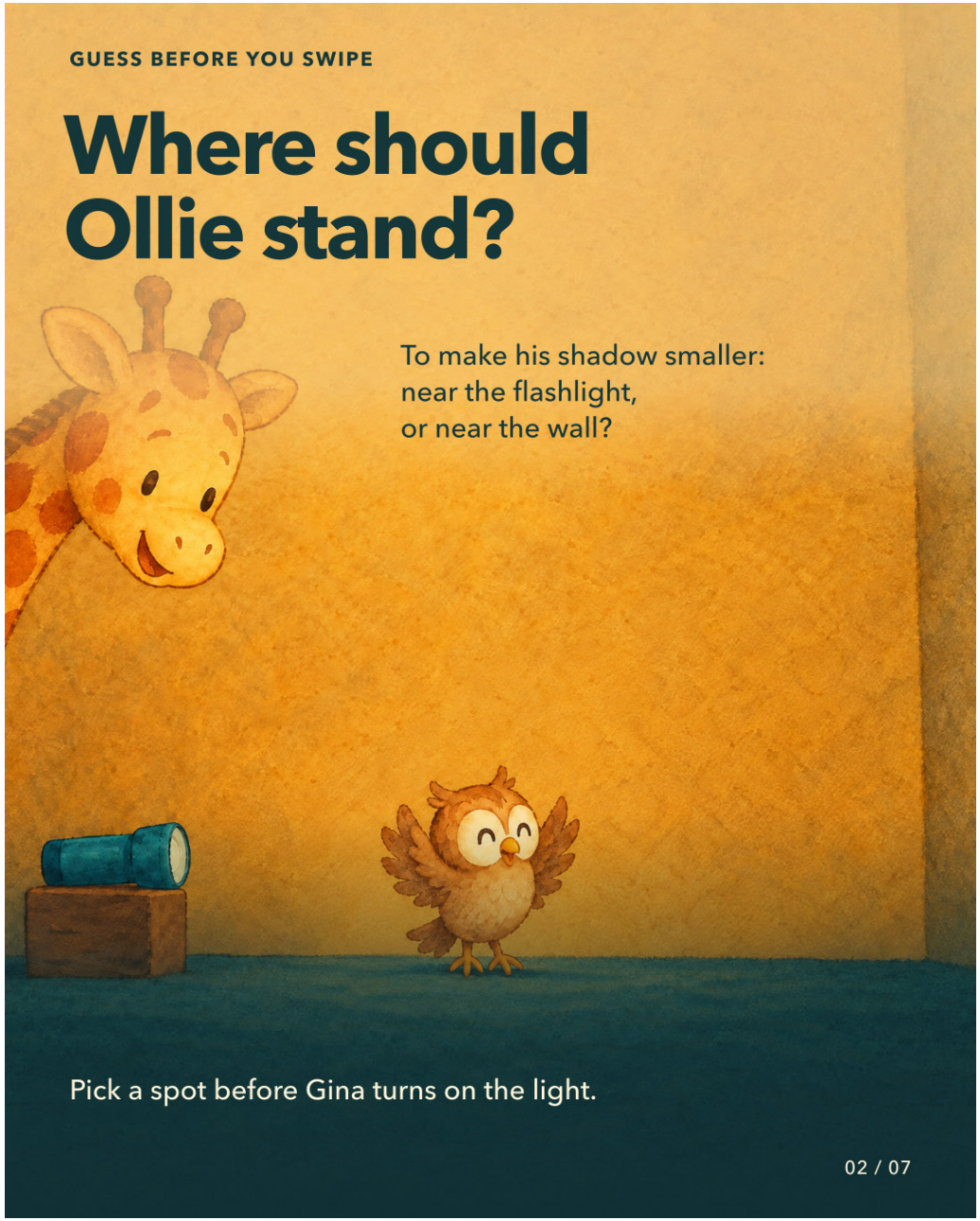
A small adventure with Gina and Ollie.

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