

Did the pencil bend?

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



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.



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.



CHECK YOUR GUESS

Still straight.

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

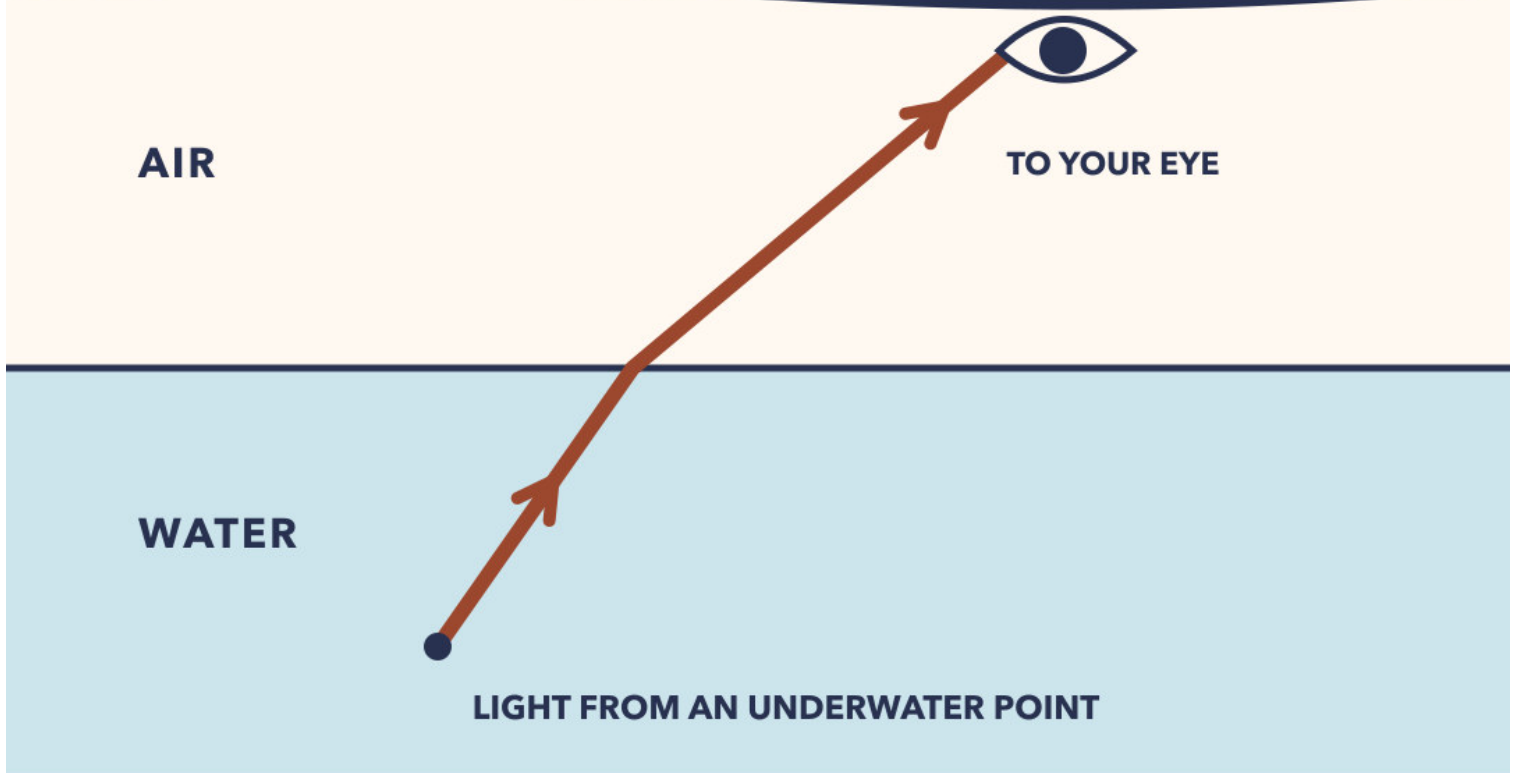
What changed: the pencil or the view?



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.

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.

KEEP CHASING QUESTIONS

A little light. A lot to discover.

Read Gina and the Light Chase
together.



Parents: explore the story in Kiddos Books.

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