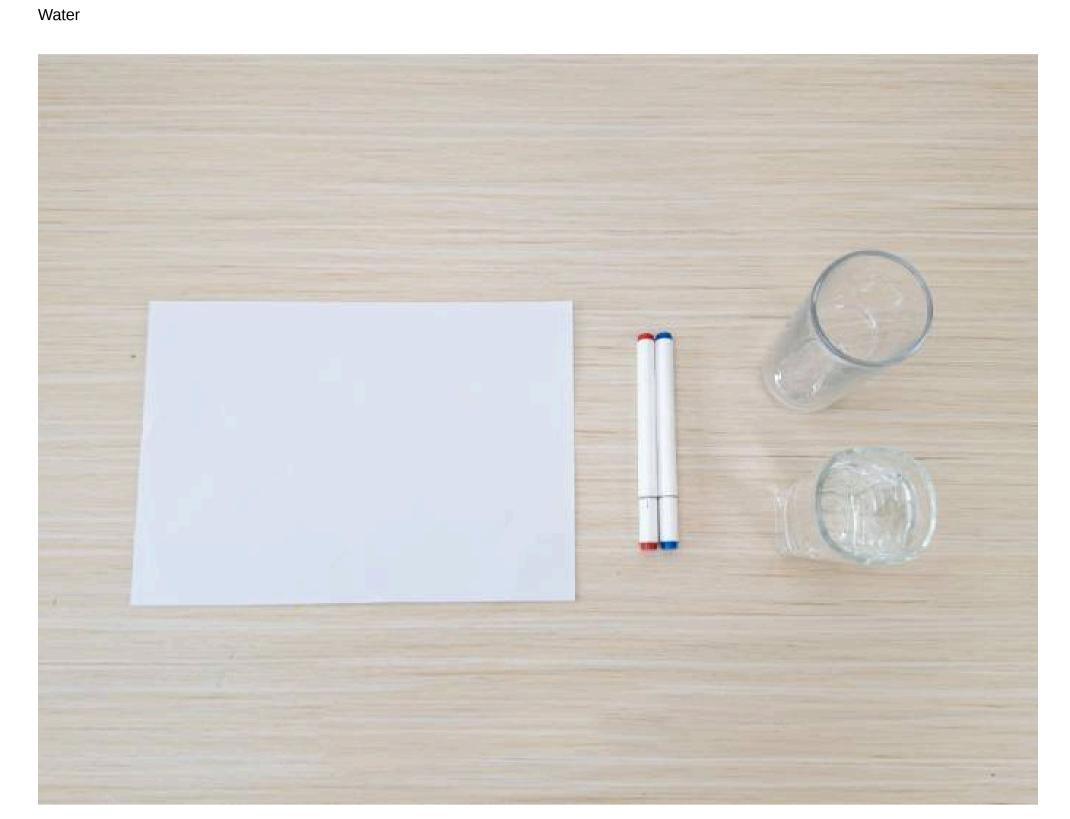


Don't blink - you're about to witness 'magic' happening before your eyes! Why does the arrow change direction when water is added? This fascinating scientific phenomenon is actually related to light refraction.

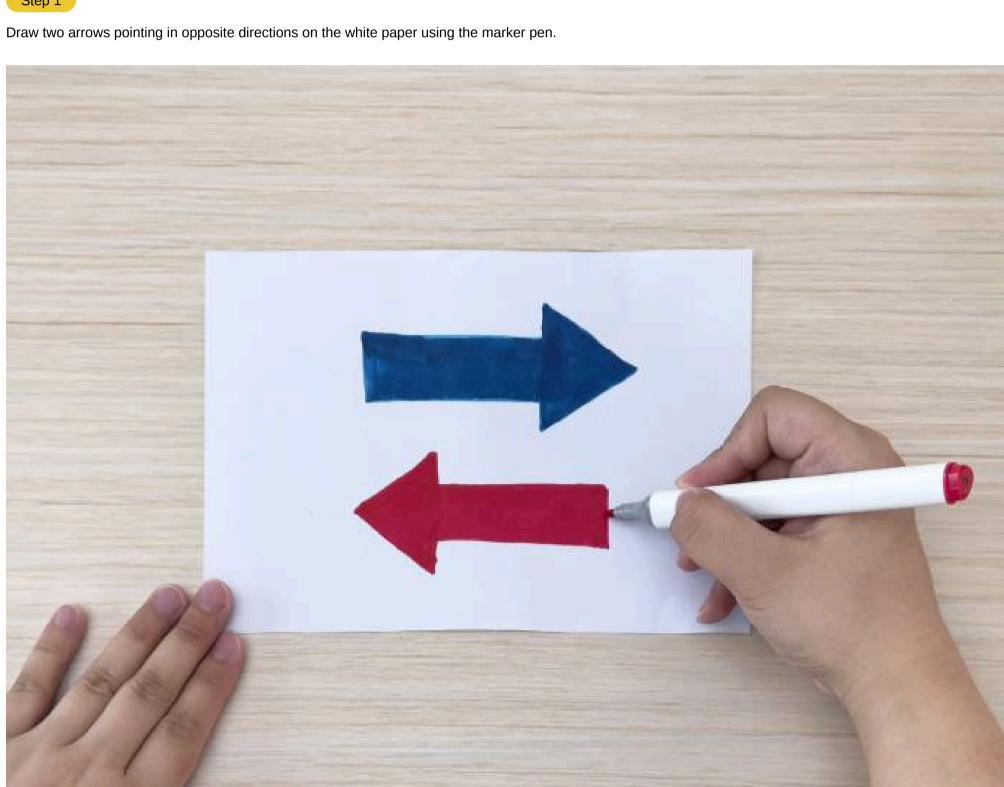
Materials Needed

White paper Marker pen Glass



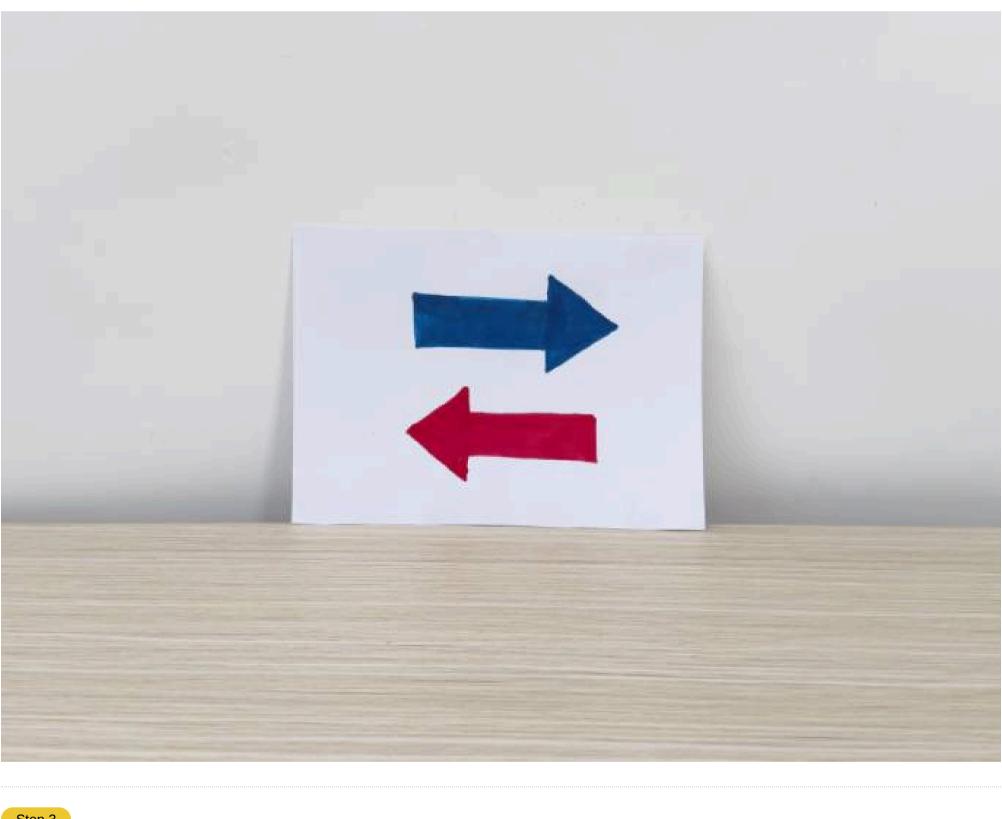
Step-by-step tutorial

Step 1



Step 2

Stand the paper with the arrows against a wall.



Place the glass in front of the paper, ensuring you can see the arrows through it.





The Science Behind It: When light travels from one medium (like air) into another medium with a different density (like water), it changes direction. This is called light refraction. In this experiment, when water is poured into the glass, it alters the path of light rays, causing the arrows to appear "reversed". The water acts as a lens, bending the light and creating this optical illusion.