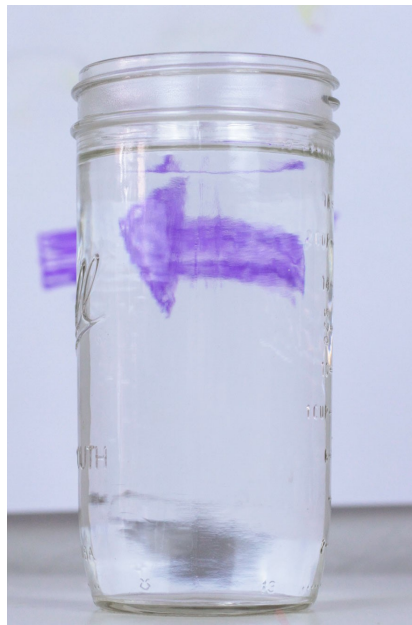


# APRIL

## science experiments



# FOUR different experiments plus recording sheet



## Flip the Arrow

This AMAZES kids every single time no doubt your students will love it!

### SUPPLIES

- Markers
- Paper
- Large jar or cup
- Tape



### SETTING UP

Draw a large arrow onto a piece of paper.  
Fill the jar with water.

## DOING THE EXPERIMENT

Tape the arrow to the wall so that you can see the arrow through the jar.



Slowly move the jar in front of the arrow. Instruct the kids to watch closely.



## QUESTIONS TO ASK

- What makes the arrow flip?
- Will other shapes flip?
- Does changing the shape of the container of water change how the light bends?

## THE SCIENCE BEHIND IT

Flipping an arrow is an exercise in light refraction. Light waves travel through glass onto the paper with the arrow. But water bends the light in the jar. The light is bent, the image is distorted as if the image has flipped. Look at it through the round jar.

Name: \_\_\_\_\_

## Light Refraction

If we place the jar of water in front of the arrow, I predict this will happen:

Draw a picture of the jar and the arrow to the side

Explain what happened to the arrow when you place the jar of water in front of it:

Name: \_\_\_\_\_

## Light Refraction Activity

If we place the jar of water in front of the arrow, I predict this will happen:

Show what happened to the arrow when you place the jar of water in front of it:

step-by-step directions & differentiated recording sheet

