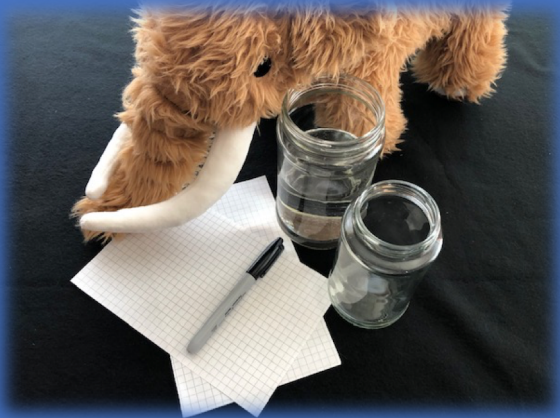
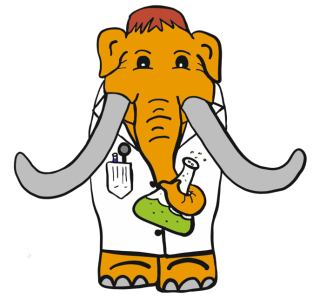


Science Saturday @ Home

Refraction of Light in Water



Gathering Supplies:

Clear glass bottle or jar
Water Paper
Marker

How To Steps:

This is a great trick for the dinner table!

1. Take a half sheet of paper and fold it in half again, to make a tent shape that lets the paper stand by itself. Take a dark marker and put an arrow, about an inch long, in the middle of the paper.
2. Place a clear glass about 5 inches in front of your arrow. Sit so that you are eye level with the arrow and can see it clearly.
3. Have an adult or friend slowly fill the glass with water while you keep an eye on the arrow through the glass.
4. As the water fills up pass the arrow, what happens to the arrow? Why do you think this happens?

Exploring with Max



Did You Know?

Have you ever looked through a tall glass of water and thought that things looked a little odd on the other side?

As light passes through the clear glass and water it bends. This is called refraction. Refraction is caused by the difference in the densities of the water compared to the air around it. The water causes the light wave to slow, which makes it bend. As the light wave goes back out of the water and glass it bends again. As the paths of light bend they cross each other causing an image to appear to flip!

Pretty cool trick to show your family next time you're pouring them a cold glass of water!

