

SCIENCE FUNFAIR

Water and oil have many uses
But have you made a glass invisible..
With their help?

To make a glass invisible

Material:

A big vessel made of glass

2 liters of oil (groundnut oil or sunflower oil)

2 liters of water

1 glass

2 spoons

Start Science- Fun Experiment :

In a big glass vessel first pour 2 liters of water.

Now release a glass into this vessel.

The glass will submerge but you will be able to see the glass from the front.

The glass will not become invisible.

Empty the big vessel.

Dry it completely.

Pour 2 liters of oil into the vessel.

Now slowly release the glass into the vessel.

If you look from the front, the glass will not be visible at all.

It will feel as if the glass has become invisible!

The glass has dissolved in the oil.

Isn't this fun?

The Science-Fun behind it...

When a glass is placed in a bowl of water, the rays of light from the glass travel through water and glass and then reach our eyes. Refraction takes place. The speed of light differs from medium to medium. This means refraction of rays of light takes place when they travel from one medium to another. We can see a glass in water clearly because refraction of every ray of light coming from the glass takes place.

It is simple. Refraction of light does not take place...so we can't see the glass!

The speed of light is the same while travelling through oil and glass. So the light rays coming from the glass and travelling through oil and glass reach our eyes without getting refracted and our eyes cannot perceive the glass.

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Science fun findings:

- Use different types of oils and do this experiment.
- If we use a cup instead of a glass what will happen?