

## 'Impress my family' science experiment 3

### Defy gravity with the inverted water cup

#### What you need:

Plastic cup

Rubber band

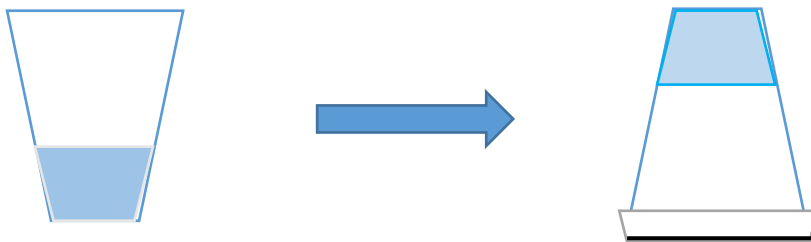
Fine mesh material like tulle or your mum's tights

Laminated card or piece of plastic folder

Water and a sink or tray

#### Challenge your family:

Invert a water filled cup without spilling it. Use any or all of the equipment above.



## How to do it?

Watch the **video**:

<https://www.youtube.com/watch?v=Xbr3TyWesUc&feature=youtu.be>

Strap the tulle over the cup (no folds) and fix with rubber band. Press the plastic card over opening and turn around. Now slowly, slowly move the card away, staying completely horizontally.



## What's going on?

Water forms a thin 'skin' on its surface. This allows the formation of water droplets and lets some insects walk across water. This is called surface tension and keeps the water in the cup as long as the water 'skin' holds on to the fibres of the tulle.

What happens if you now touch the tulle? Would this trick be easier with smaller or bigger holes?

