DIYs » Stem Activities » Quick Easy Experiments » Age 6 - 8 » Magical Vacuum



This fascinating science experiment for children explores the secrets of invisible atmospheric pressure.

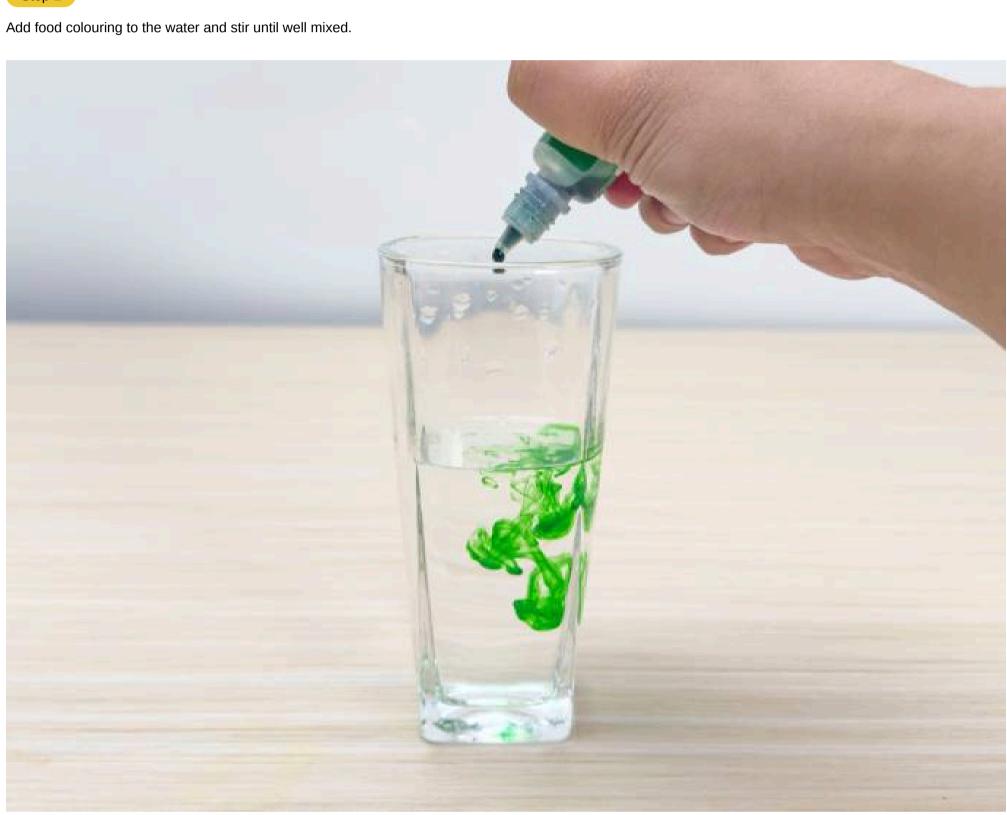
Materials Needed

Food colouring Candle Glass Cup of water Stirring stick Lighter (or matches)



Step-by-step tutorial

Step 1

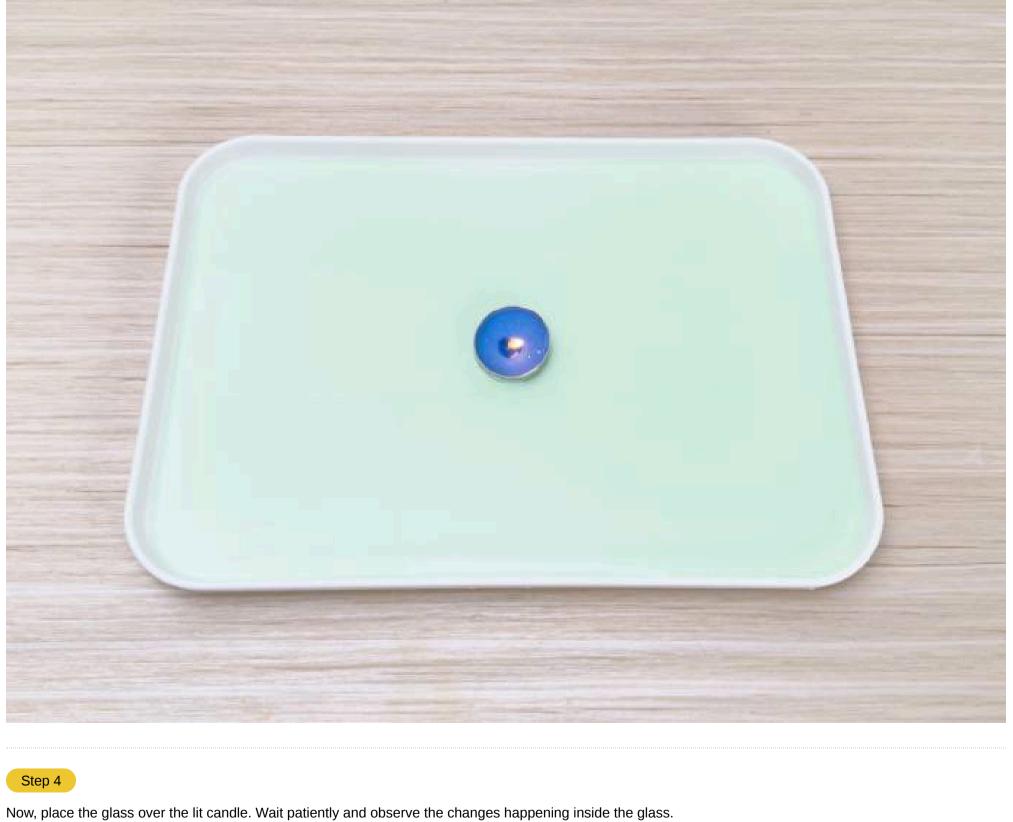


Step 2

Pour the coloured water onto the plate.



Next, place the candle in the water and light it using the lighter. Be careful with the flame to avoid burns.





The Science Behind It: This experiment demonstrates the fascinating phenomenon of atmospheric pressure. The burning candle causes a rapid temperature change inside the glass, leading to a pressure difference. The air pressure outside the glass becomes higher than inside, which actually pushes the water up into the glass.