



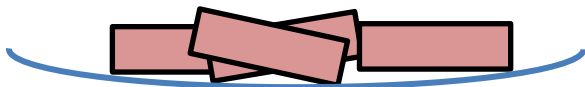
# Diffusion

What you need to know:

- What is diffusion?
- How can we measure the rate of diffusion?
- How does concentration affect the rate of diffusion?

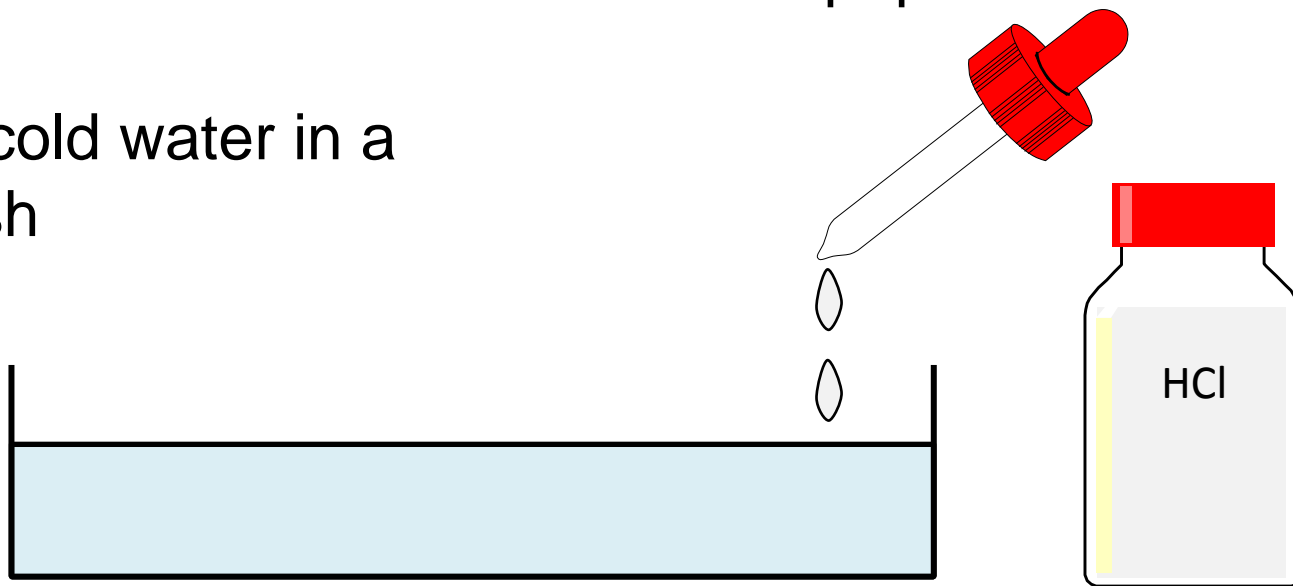
Read through the worksheet





- Collect about 12 squares of red litmus paper

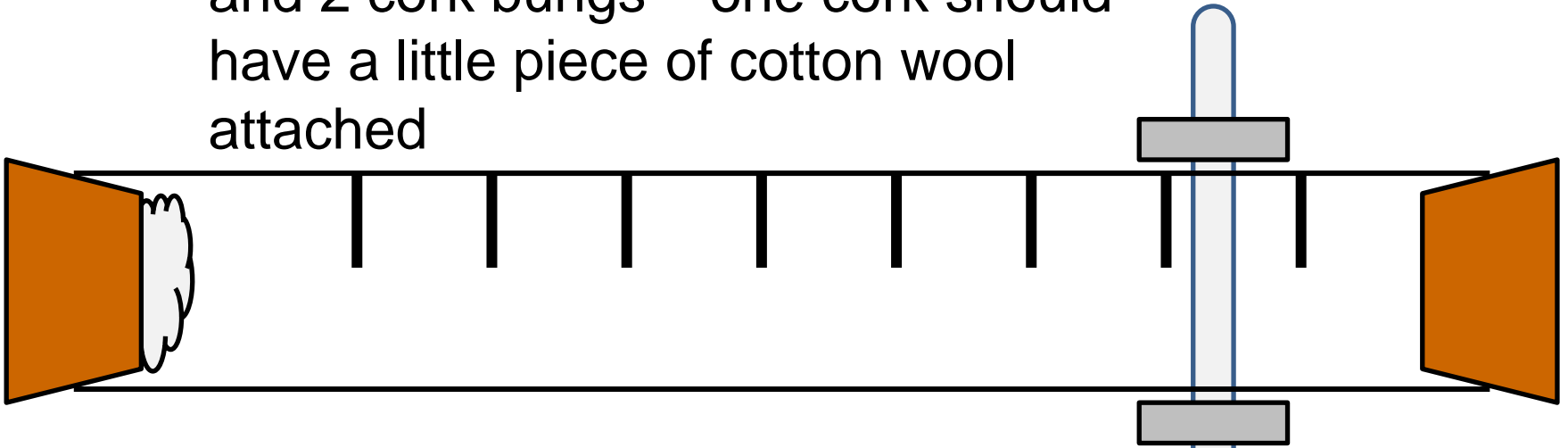
- Place a little cold water in a Petri dish



- Add 1 or 2 drops of dilute hydrochloric acid until the water is *just* acidic



- Collect a tube marked at 2 cm intervals and 2 cork bungs – one cork should have a little piece of cotton wool attached



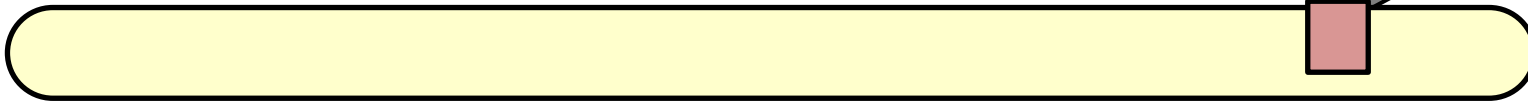
- Clamp the stand horizontally into a clamp stand



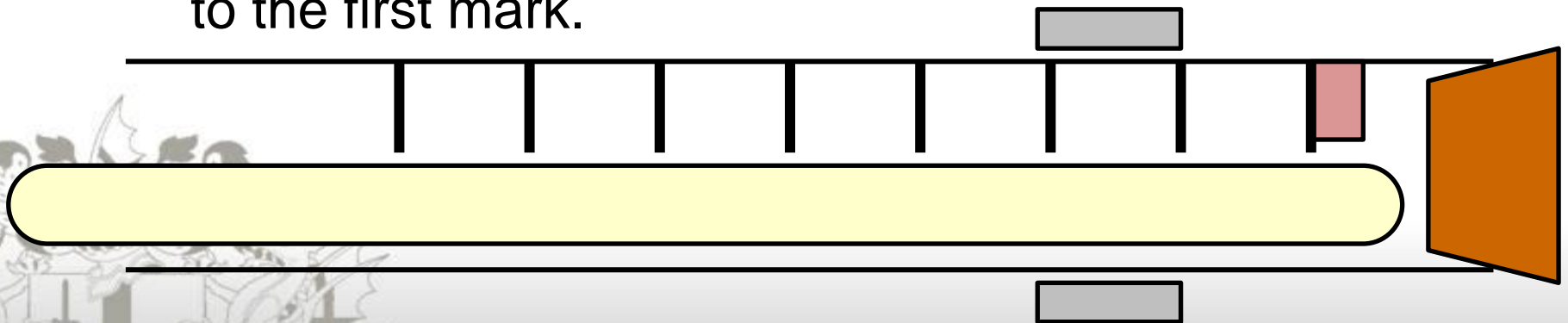


- Using forceps, dip a square of litmus paper in the water then shake off the excess

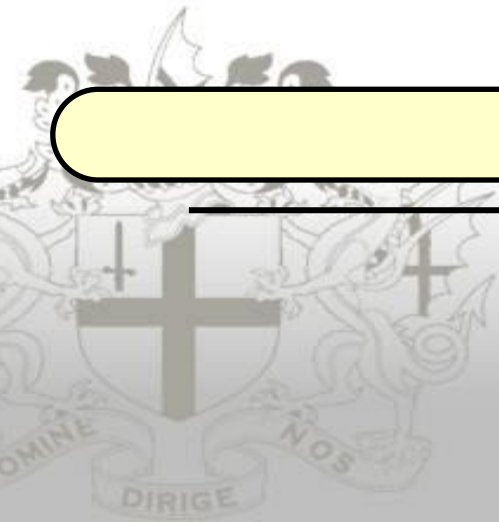
- Place the litmus paper on the rod.



- Use the rod to stick the litmus square to the first mark.



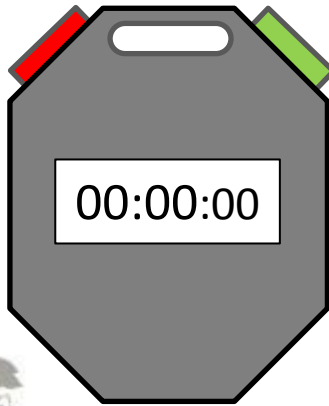
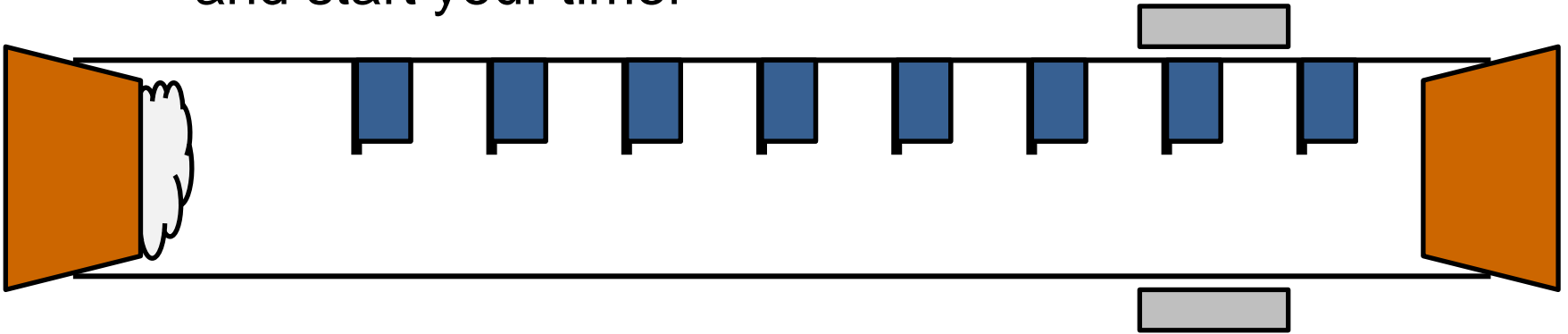
- Use the same method to attach a square of litmus paper to each mark



- Take the cork with a cotton wool plug to the central dispensing point in the laboratory
- Use the dropping pipette to place about 20 drops of ammonia solution on the cotton wool in the cork.



- Insert the cork in the appropriate end of the tube and start your timer



- Record the time taken for each square to turn *completely* blue

