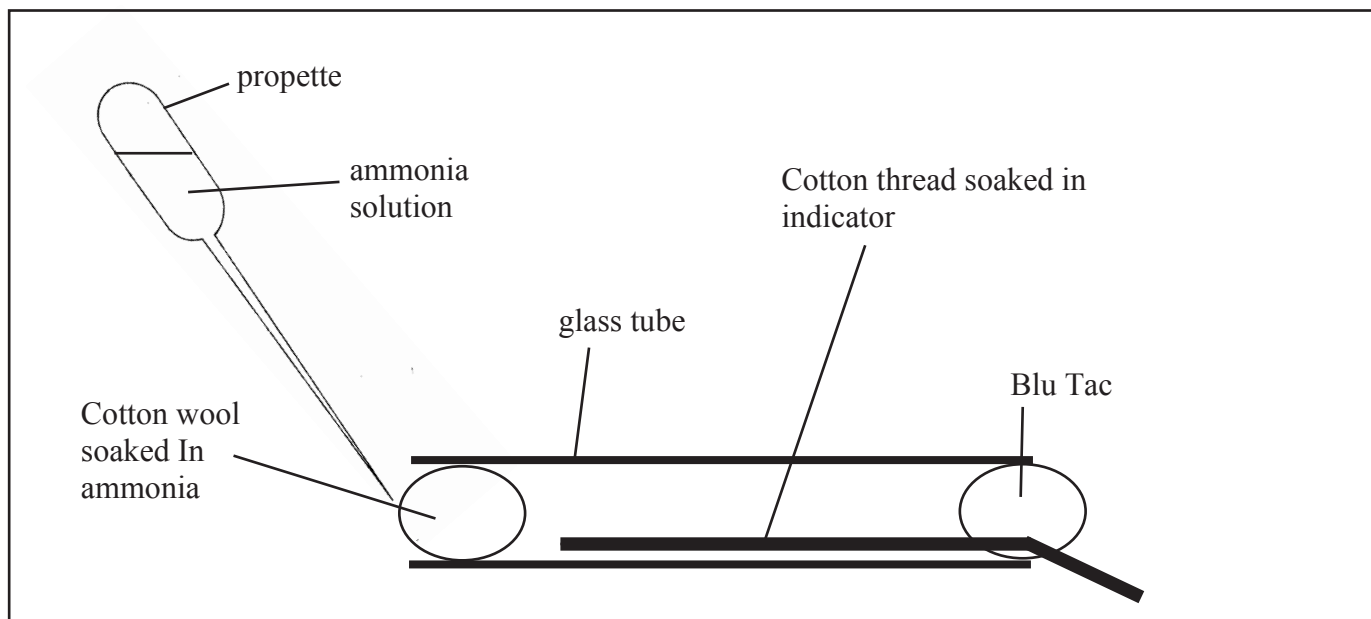


How quickly does ammonia diffuse?



NOTE: -

The cotton wool **must not** touch the thread!

When you add the ammonia from the Propette, the glass tube must be horizontal.

Put the Propette on the table and **gently** press it so that on or two drops of ammonia solution moisten the cotton wool.

Start timing when the ammonia reaches the end of the thread nearer the Propette.

Questions

1. What do you see when the indicator and ammonia meet?
2. Describe what happens in the glass tube.
3. How long did it take the ammonia to pass along the length of the thread?
4. In a vacuum ammonia particles travel at 550 metres per second. Fill in the paragraph below to explain why their speed is slower here.

In a vacuum there are no p_____ in the way of the ammonia particles and they move very q_____. But, in the glass tubing there are a_____ particles in the way and these stop the a_____ particles d_____ along the tube very quickly.