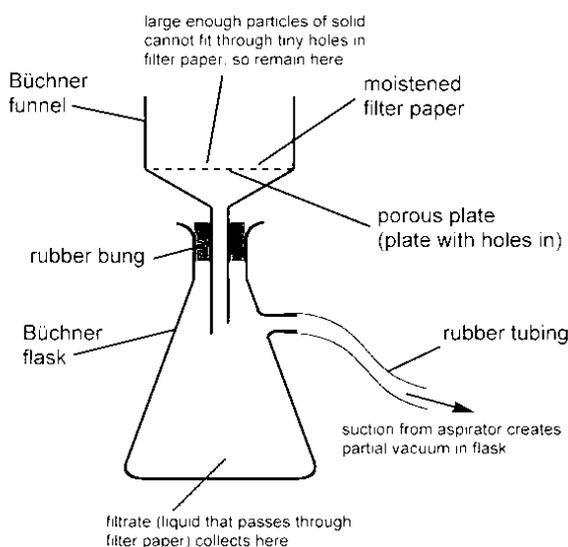


Guide to handling Glassware and accessories in the Chemistry Laboratory

WATER SUCTION SETUP:

You will be performing a trial filtration today. For most of you, this setup provided at your table may be new.

Take a moment to understand this setup at your table.



It consists of a modified conical flask- a **side-arm conical flask**, the arm of which is connected by a water pipe onto a metal connector arm. The metal connector is further connected to the source of water (tap).

Further atop the mouth of the conical flask is placed a special funnel called the **Büchner funnel**. This funnel is snugly placed into the mouth of the flask with the help of a rubber cork (bung). You must always remember to fit the funnel snugly and tightly onto the flask to avoid any air gaps.

Placing the filter paper in the funnel:

Now take the supplied filter paper circle which you will be placing onto the funnel. Fold the ends of the filter paper to fit the paper inside the funnel.

Soak the filter paper with a few drops of the water and affirm its place in the funnel by gently lining the edges of the filter paper to the inner walls of the funnel, without leaving any gaps near the walls.

Points to remember:

- You **must not turn on** the knob of the tap **before** you pour some amount of solution to be prepared onto the funnel. Not doing so can result in the tearing of the filter paper due to suction.
- While pouring the solution onto the filter paper, swirl the container before pouring to transfer maximum amount of product/solid onto the paper. Also utilise the glass rod as instructed by the lab expert and evenly pour the product towards the centre of the filter paper.
- **Gradually** increase the pressure of the water supply.

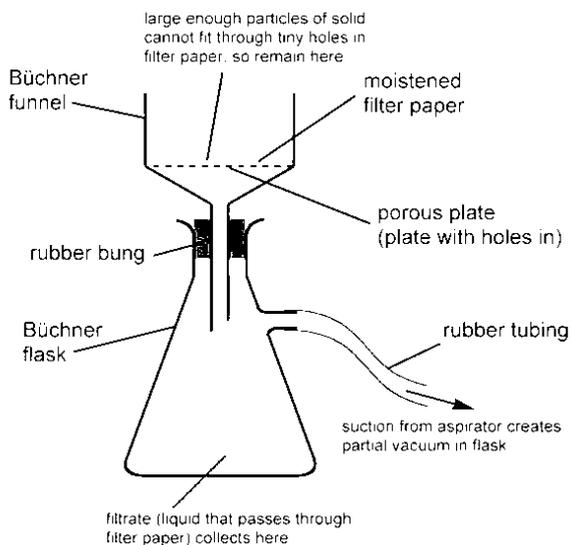
Various laboratories can have different setups, often unlike this one. Some may have an electrical vacuum pump attached to the flask while some can be simultaneously connected setups (larger laboratories).

Guide to handling Glassware and accessories in the Chemistry Laboratory

WATER SUCTION SETUP:

You will be performing a trial filtration today. For most of you, this setup provided at your table may be new.

Take a moment to understand this setup at your table.



It consists of a modified conical flask- a **side-arm conical flask**, the arm of which is connected by a water pipe onto a metal connector arm. The metal connector is further connected to the source of water (tap).

Further atop the mouth of the conical flask is placed a special funnel called the **Büchner funnel**. This funnel is snugly placed into the mouth of the flask with the help of a rubber cork (bung). You must always remember to fit the funnel snugly and tightly onto the flask to avoid any air gaps.

Placing the filter paper in the funnel:

Now take the supplied filter paper circle which you will be placing onto the funnel. Fold the ends of the filter paper to fit the paper inside the funnel.

Soak the filter paper with a few drops of the water and affirm its place in the funnel by gently lining the edges of the filter paper to the inner walls of the funnel, without leaving any gaps near the walls.

Points to remember:

- You **must not turn on** the knob of the tap **before** you pour some amount of solution to be prepared onto the funnel. Not doing so can result in the tearing of the filter paper due to suction.
- While pouring the solution onto the filter paper, swirl the container before pouring to transfer maximum amount of product/solid onto the paper. Also utilise the glass rod as instructed by the lab expert and evenly pour the product towards the centre of the filter paper.
- **Gradually** increase the pressure of the water supply.

Various laboratories can have different setups, often unlike this one. Some may have an electrical vacuum pump attached to the flask while some can be simultaneously connected setups (larger laboratories).