



Department of Anesthesia Techniques  
Title of the lecture:- Glassware



Asst. Lec. Hadeer Mohammed Subhi  
Asst. Lec. Lilyan Qassim Alwan  
hadeer.mohammed@uomus.edu.iq  
lilyan.qassim@uomus.edu.iq

# Glassware



The main characteristics of glass that used in lab is: transparent, heat resistant, pressure and breakage resistance and chemical resistance.

The main glassware that used in lab is:

## 1- Cylinder:

It is used to measure the volume of liquid quickly and accurately



## 2- Volumetric Flask:

A volumetric flask is used when it is necessary to know both precisely and accurately the volume of the solution that is being prepared





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### 3- Beaker:

It is a cylindrical container used to mix the reaction materials and stir them, heat them, or hold them until dry



### 4- Conical Flask:

The same uses of beaker and also to hold filter funnel



### 5- Funnel:

Used for funneling liquids from one container to another and for filtering when equipped with filter paper.



### 6- Filter Paper

Is a semi-permeable paper used to separate fine solids in a liquid during a filtration process.





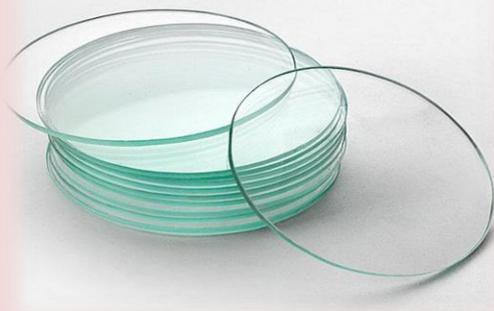
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**7- Watch Glass:**

A watch glass is used to hold a small amount of solid, such as the product of a reaction.



**8- Test Tube:**

Used for holding small quantities of samples or for containing reactions.



**9- Test Tube Holder:**

Used to hold a test tube after heating or cooling.



**10- Beaker tong:**

used to hold a beaker after heating or cooling.





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11- Spatula:

Used for transfer small quantities of solid chemicals.



12- Pipette:

Used to transfer small quantities of liquids.



13- Thermometer:

Device used to measure the temperature of a substance.



14- Water Bath:

A vessel that contain water used to heat or maintain a constant temperature of lab materials.





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15- Fume Hoods:

Used for reactions that give off vapors.



16- Centrifuge:

Used to separate or concentrate materials suspended in a liquid medium.



17- Washing bottle:

It is used for a wash solution to a specific area, Distilled water is the only liquid that should be used in a wash bottle.



18- Sensitive scale:

Used to measure the mass of a solid.

