



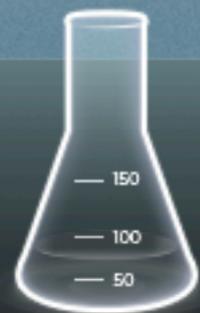
Lab Equipment

Details

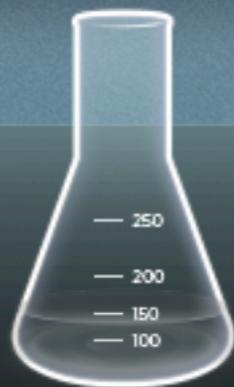


Lab Equipment

Glass Flasks



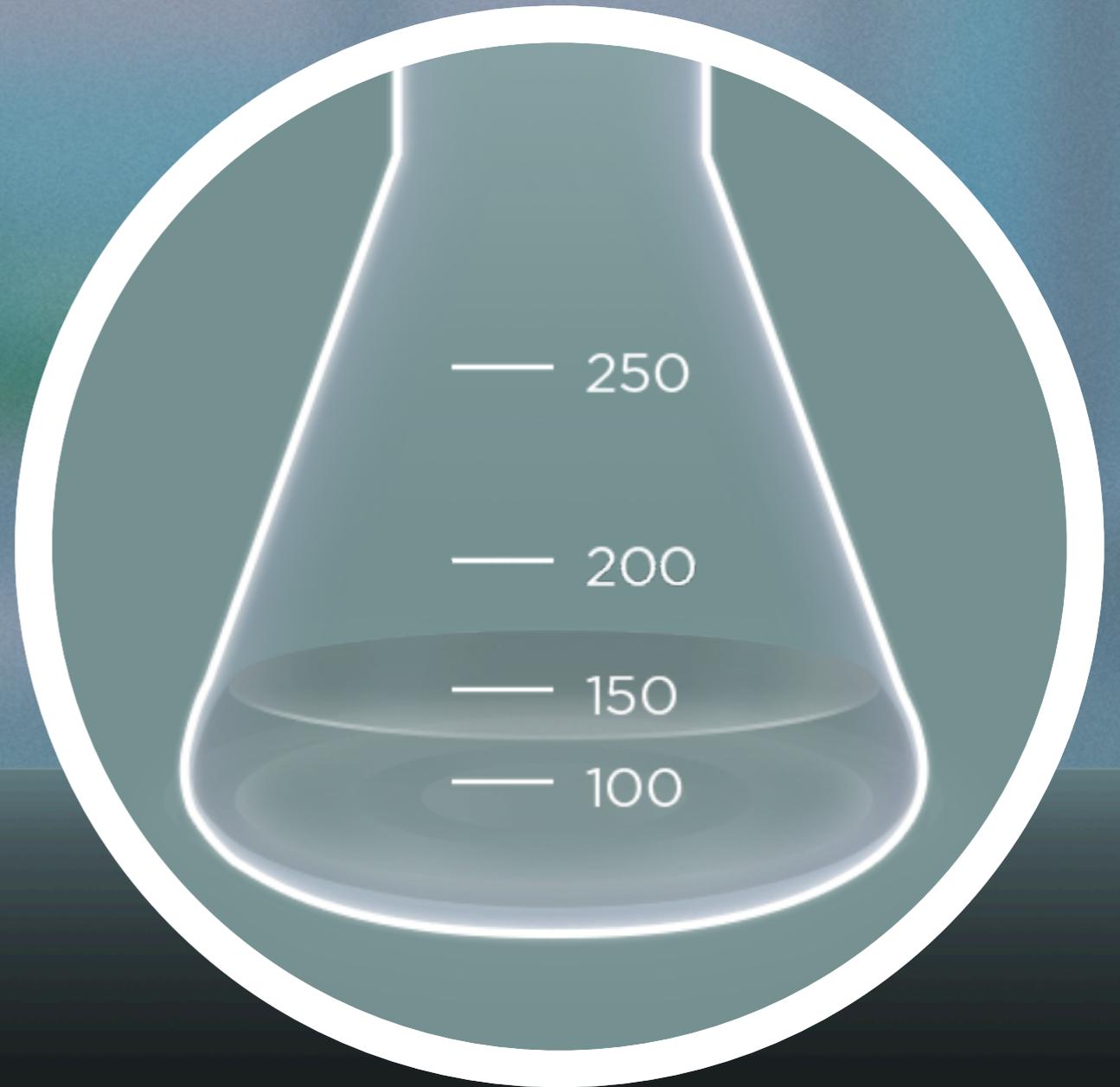
150ml



250ml



500ml





Lab Equipment

Glass Beakers



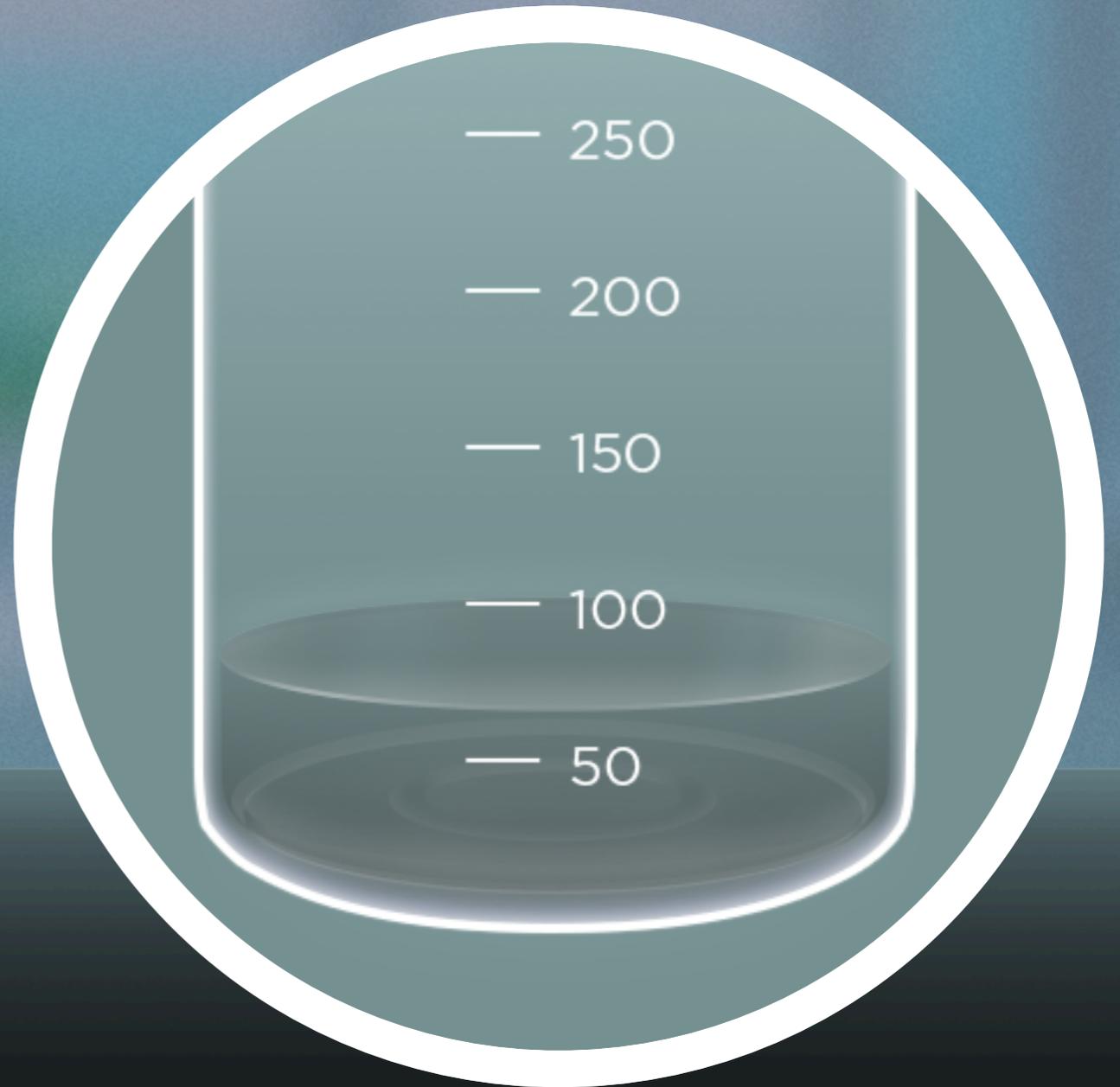
150ml



250ml



500ml





Lab Equipment

Glassware

Droppers critical to Lab coursework can be found already in the workspace.

An activated Dropper highlights the entire bottle.

But once removed, only the cap stays highlighted.



Dropper



Dropper
Activated



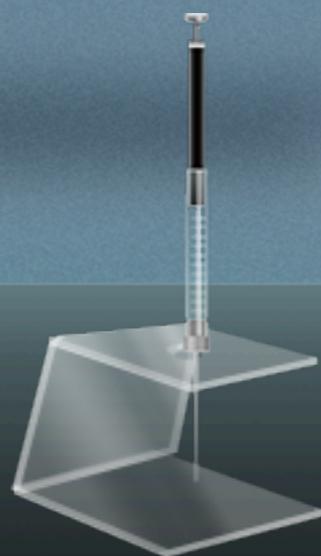
Dropper
In Use



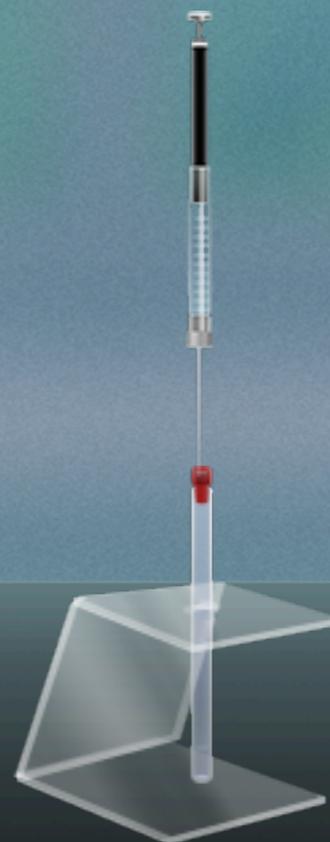
Lab Equipment

Gastight Syringe Small

A pre-filled gastight syringe can be used with a NMR tube to safely fill through the top in preparation for use with the NMR spectrometer.



Gastight Syringe
with Holder



NMR Tube
with Holder

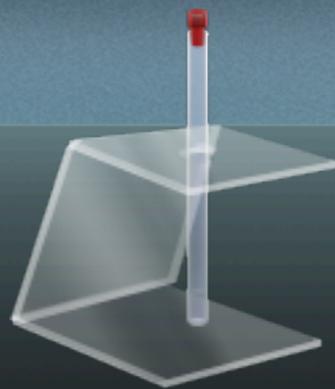


Lab Equipment

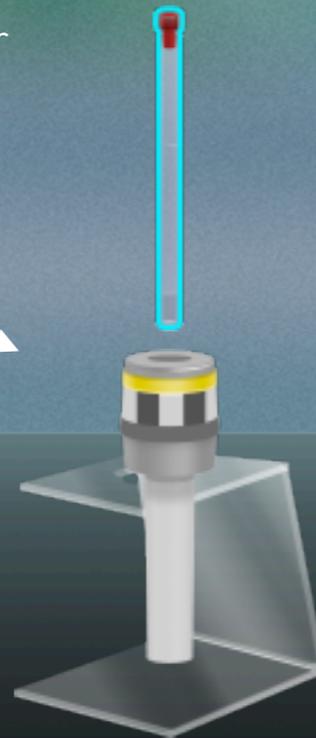
NMR Tube Spinner

An NMR Tube filled with gas for use with the NMR Spectrometer needs to be inserted into the Spinner before it can be used.

Simply use the NMR Tube with the Tube Spinner.



NMR Tube
with Holder



NMR Tube Spinner



NMR Tube Spinner
with NMR Tube inserted



Lab Equipment

NMR Spectrometer XL

Once the Tube slotted into the holder is inserted into the top part of the spectrometer, users can type in a number for the frequency they'd like to scan.

The NMR Tube holder can then be slotted into the highlighted tube on the NMR Spectrometer.

NMR Tube filled with appropriate substance is slotted (used with) in the holder.



Lift will prepare the Spectrometer for the tube holder insertion.

Scan No. Allows the user to change the frequency at which the tube is scanned





Lab Equipment

NMR Spectrometer XL

NMR Tube filled with appropriate substance is slotted (used with) in the holder.



The NMR Tube holder can then be slotted into the top tube on the NMR Spectrometer.

Lift will prepare the Spectrometer for the tube holder insertion.

Scan No. Allows the user to change the frequency at which the tube is scanned



LIFT

SCAN No. 64

REC





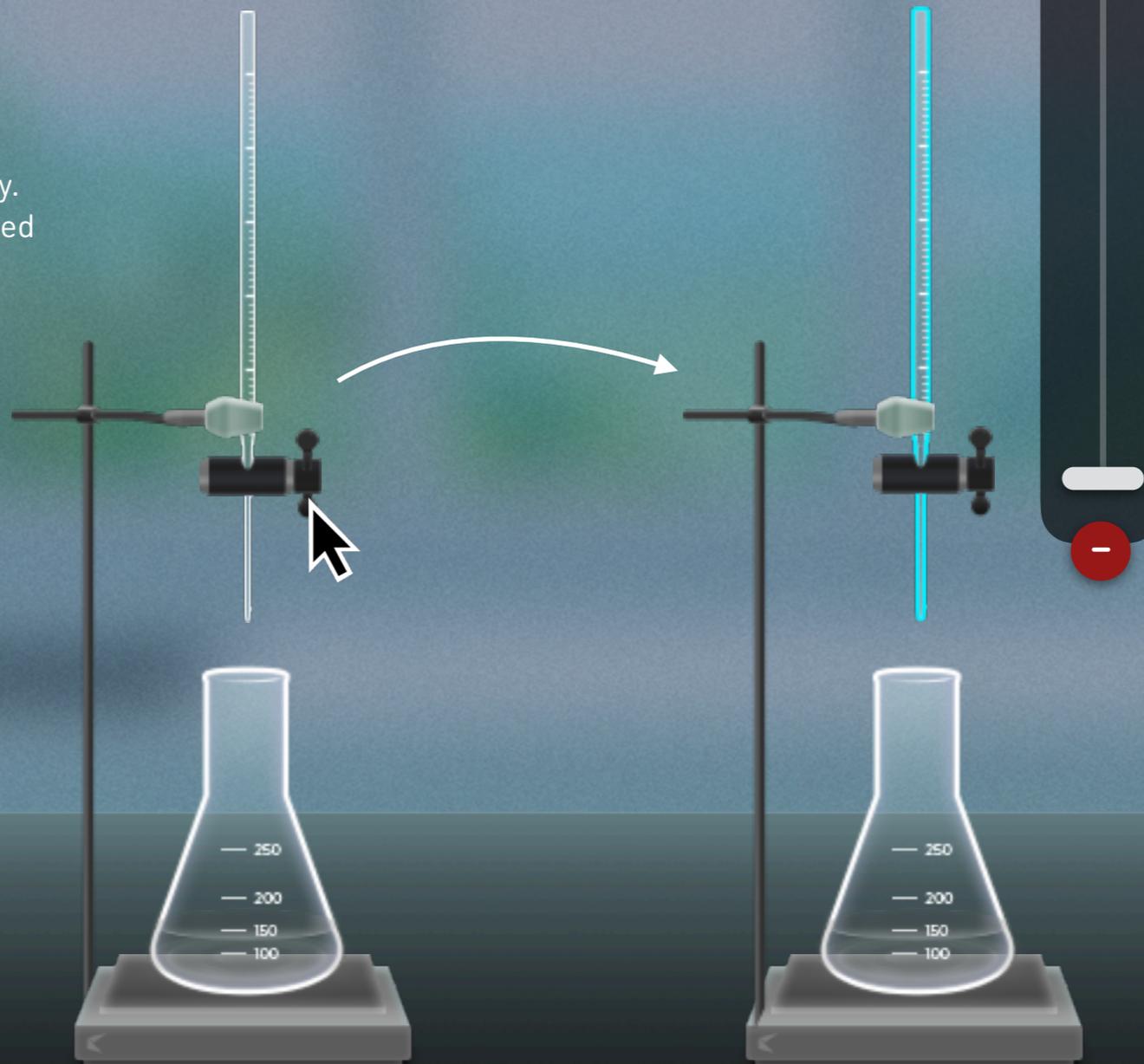
Lab Equipment

Buret

A buret is a part of any workspaces where necessary. It comes with a holder, attached to a Stir Plate beneath.

To activate the buret, click the stopcock.

To Zoom in, click the buret body.



By default the buret is stopped. The slider provides an intuitive way to interact with the Buret.

Buret
with Holder

Buret
Activated



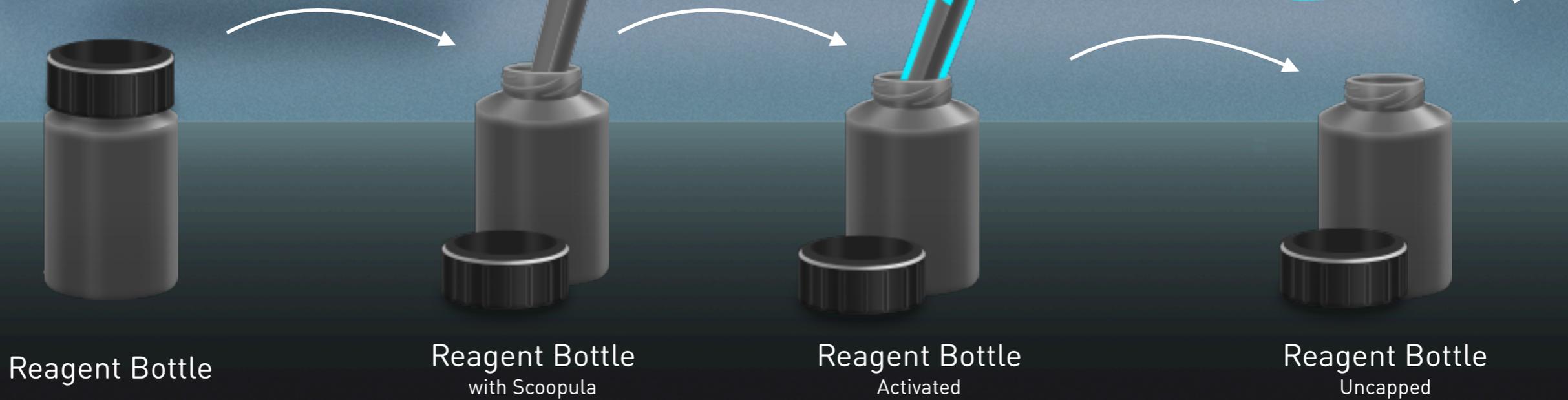
Lab Equipment

Reagent Bottle

Reagent Bottles always start out capped to protect the contents.

To get the reagent from the bottle, use a scoopula on it. It will automatically uncap.

The scoopula can then be used right out of the bottle, leaving the uncapped bottle in its place.





Lab Equipment

Scoopula

Scoopula



Scoopulas can be used with Reagent Containers or Weigh Boats

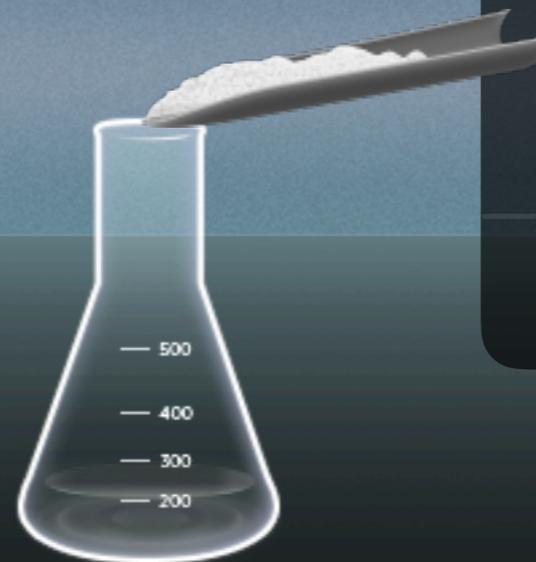
It's a basic two-step process:

- Drop scoopula in reagent/weigh boat
- Use scoopula on desired equipment.



Reagent Bottle
In-use

Weigh Boat
In-use



Like all other menus, a simple contextual menu with three options appears when using with a compatible container.

- Pour all
- Shake (1g)
- Tap (0.1g)





Lab Equipment

PH Electrodes + Meter

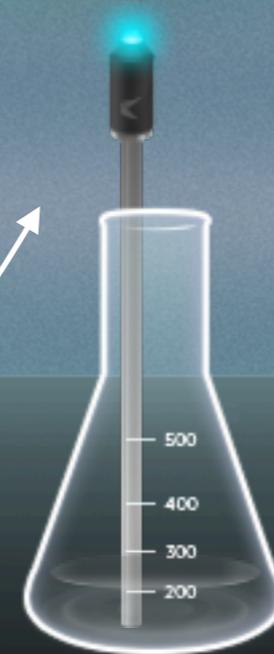
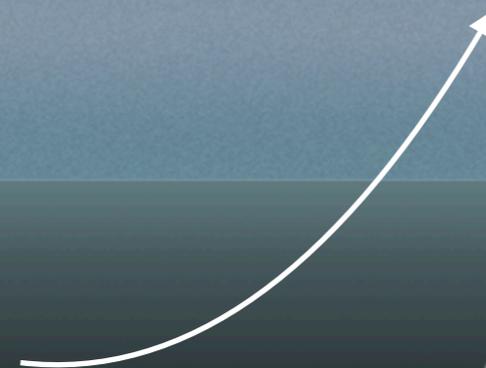
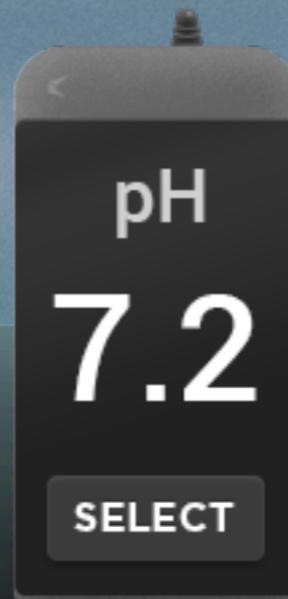
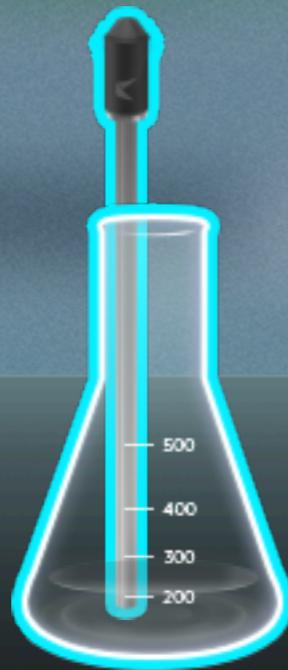


PH Electrode

There is one PH Meter per Lab workspace.

But there can be multiple electrodes.

Pressing the SELECT button will toggle the next electrode.



PH Meter
Reading PH Meters



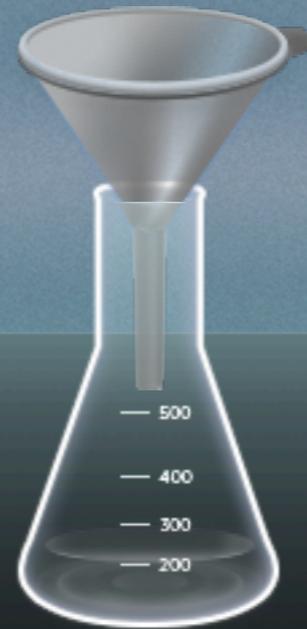
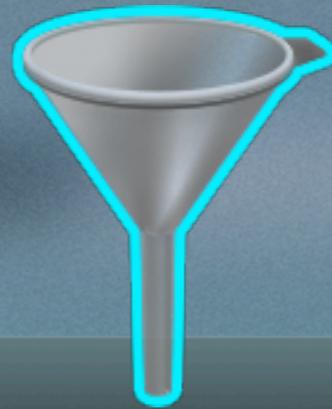
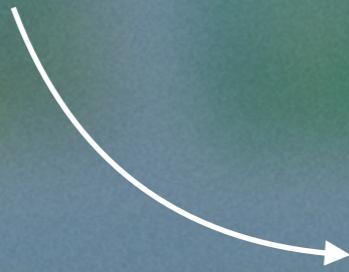
Lab Equipment

Smaller Tools



Funnel

Funnels can be obtained from the Tool Shelf and used to assist pouring liquids into any compatible container.



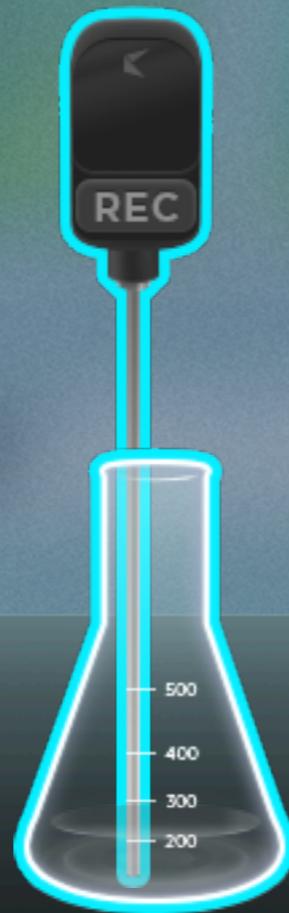


Lab Equipment

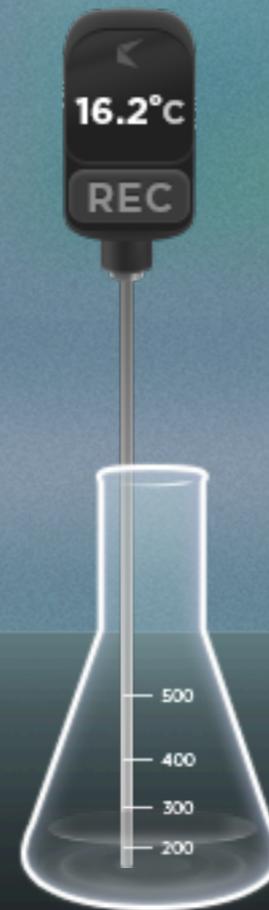
Precision Thermometer



Thermometer



Simply add a thermometer to any container with any liquid.





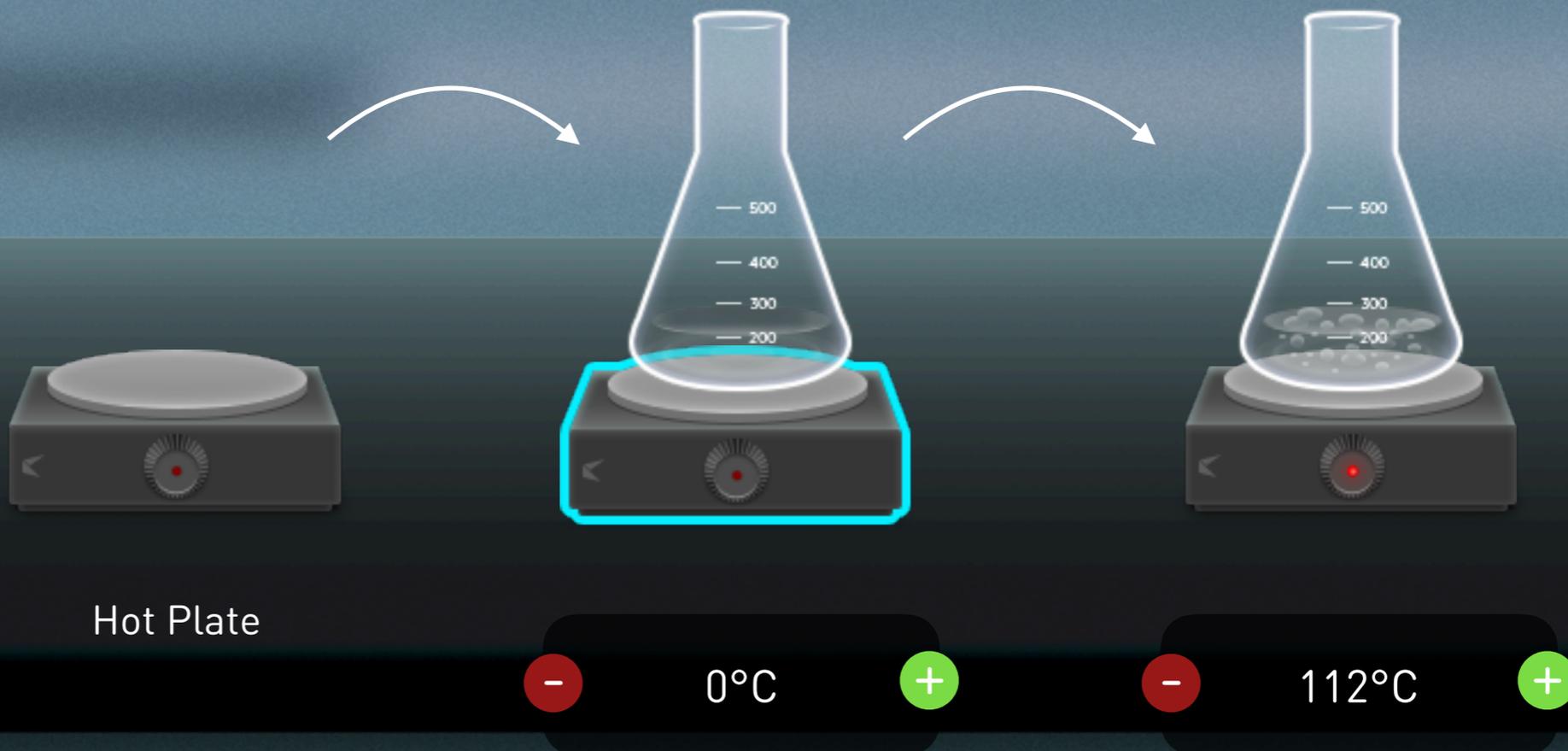
Lab Equipment

Hot Plate

Activate the Hot Plate to reveal an intuitive temperature setting menu.

The Hot Plate's light will turn on when temperature is being applied to the Plate. It can be turned off by reducing the temperature to 0.

Hot Plates come as a part of the workspace. They can be used with Flasks.



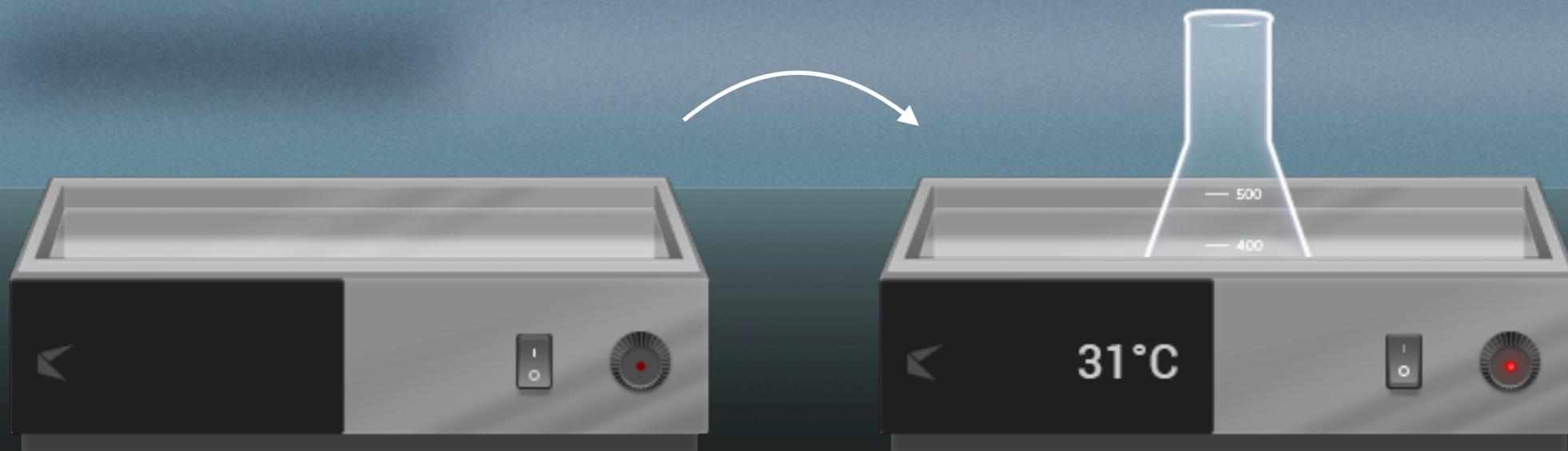


Lab Equipment

Water Bath

Water Baths are a non-removable tool part of specific lab's workspace.

Users can put flasks into it to heat to a specific temperature set intuitively below. Use the switch to turn off.



Water Bath

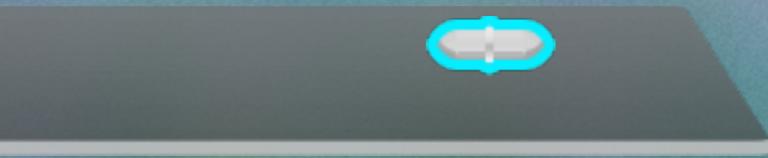




Lab Equipment

Stir Plate + Stir Bar

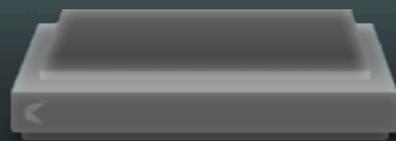
Interaction Style A



Stirbar



Our high-tech stir plates take up only one spot and can accommodate any size beaker or flask.

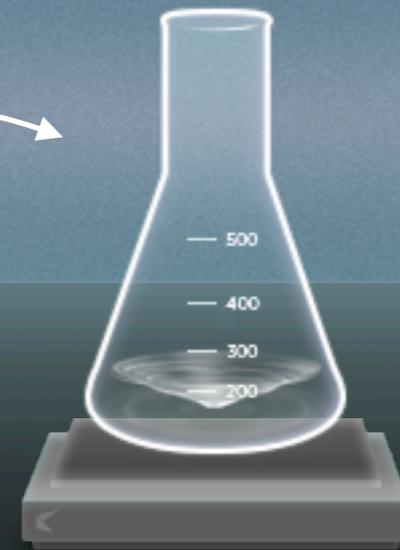
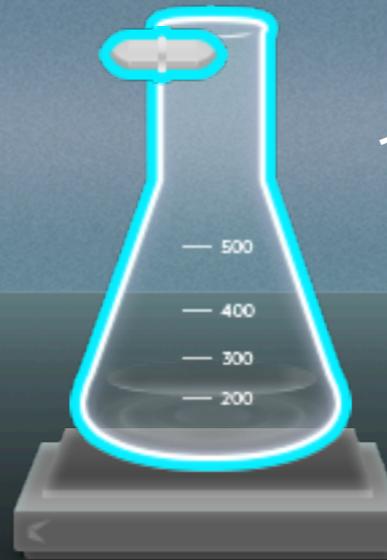


Stir Plate

Stir Bars supplied separately from the tool shelf.



The Stir Bar moves so fast it looks like it's not there, but you can see the liquid mixing.





Lab Equipment

Stir Plate + Stir Bar

Interaction Style B

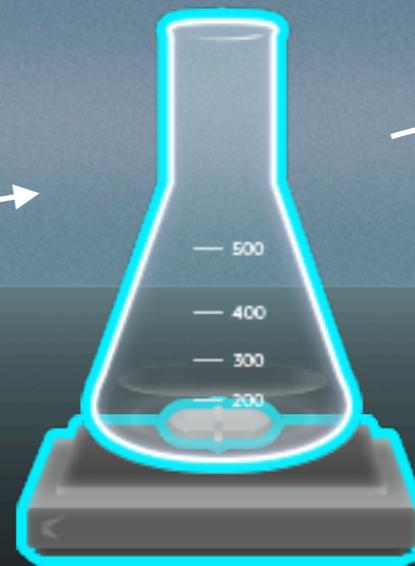
Our high-tech stir plates take up only one spot and can accommodate any size beaker or flask.

They all come with a Stir Bar.

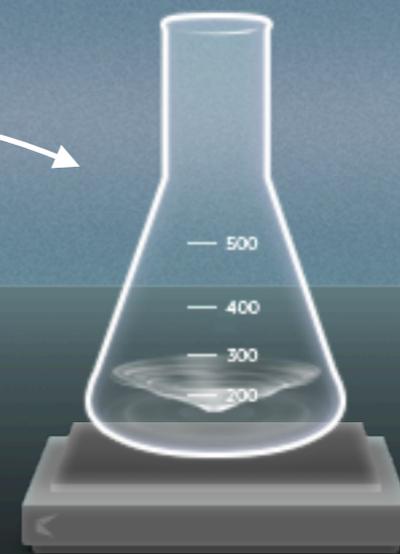


Stir Plate

Use a container with the Stir Plate and the Stir Bar is automatically put inside.



The Stir Bar moves so fast it looks like it's not there, but you can see the liquid mixing.





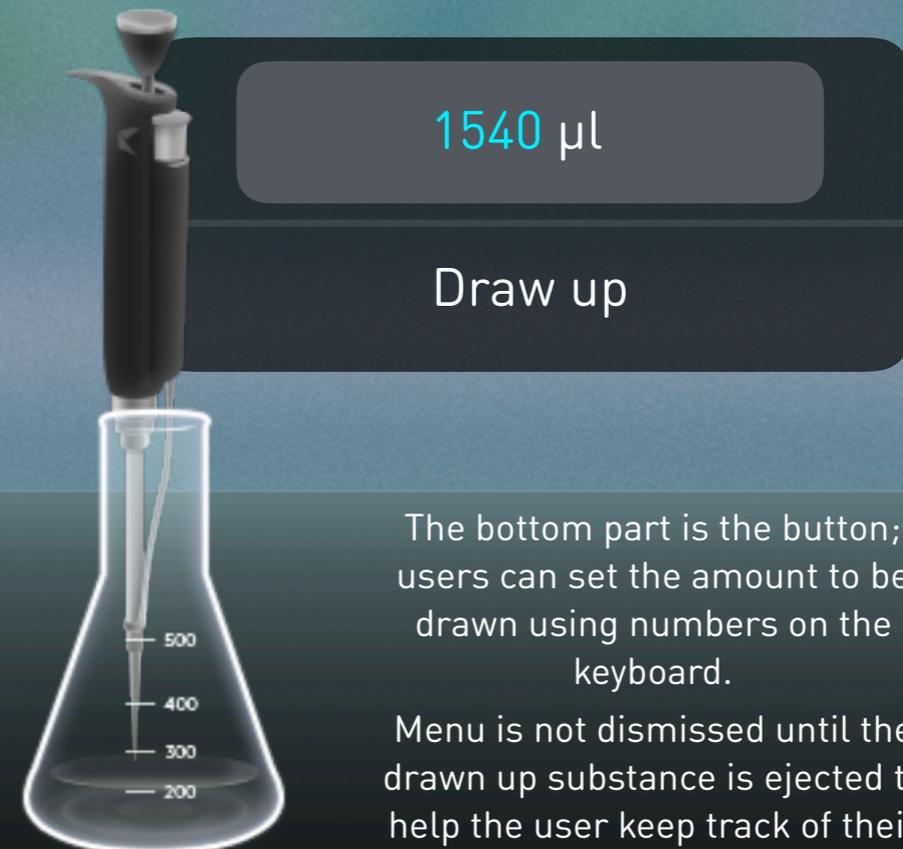
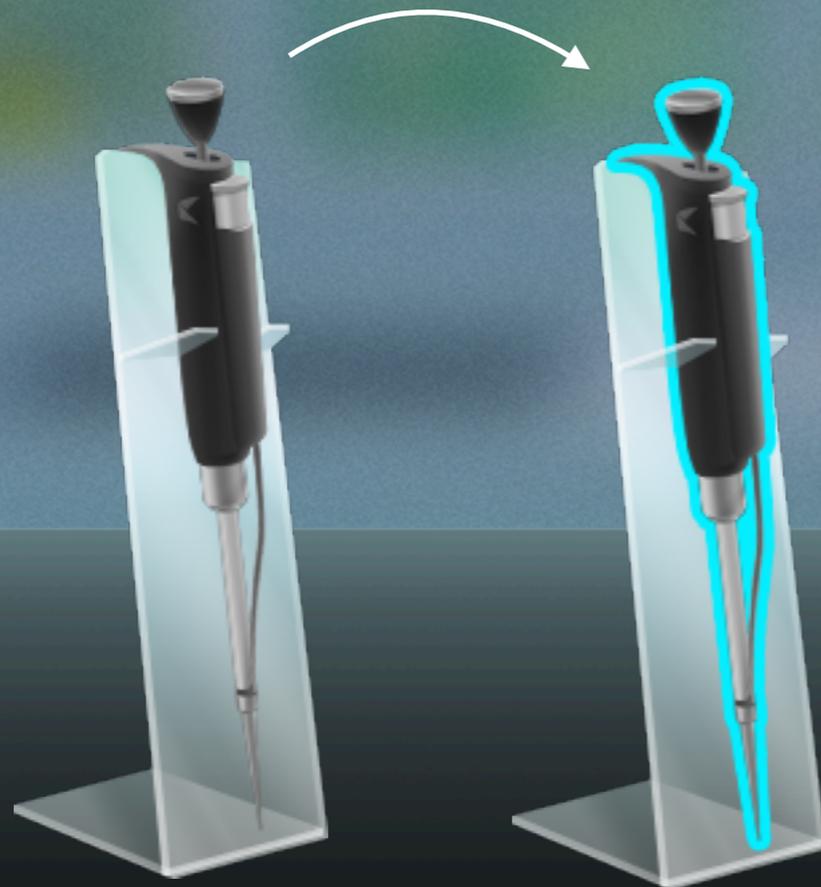
Lab Equipment

Micropipette

When dropped into the workspace, Micropipettes come on a holder.

As with all other tools, they highlight when activated.

When they're in a container where they can draw, the menu appears.



The bottom part is the button; users can set the amount to be drawn using numbers on the keyboard.

Menu is not dismissed until the drawn up substance is ejected to help the user keep track of their actions if they have multiple Micropipettes in the workspace.

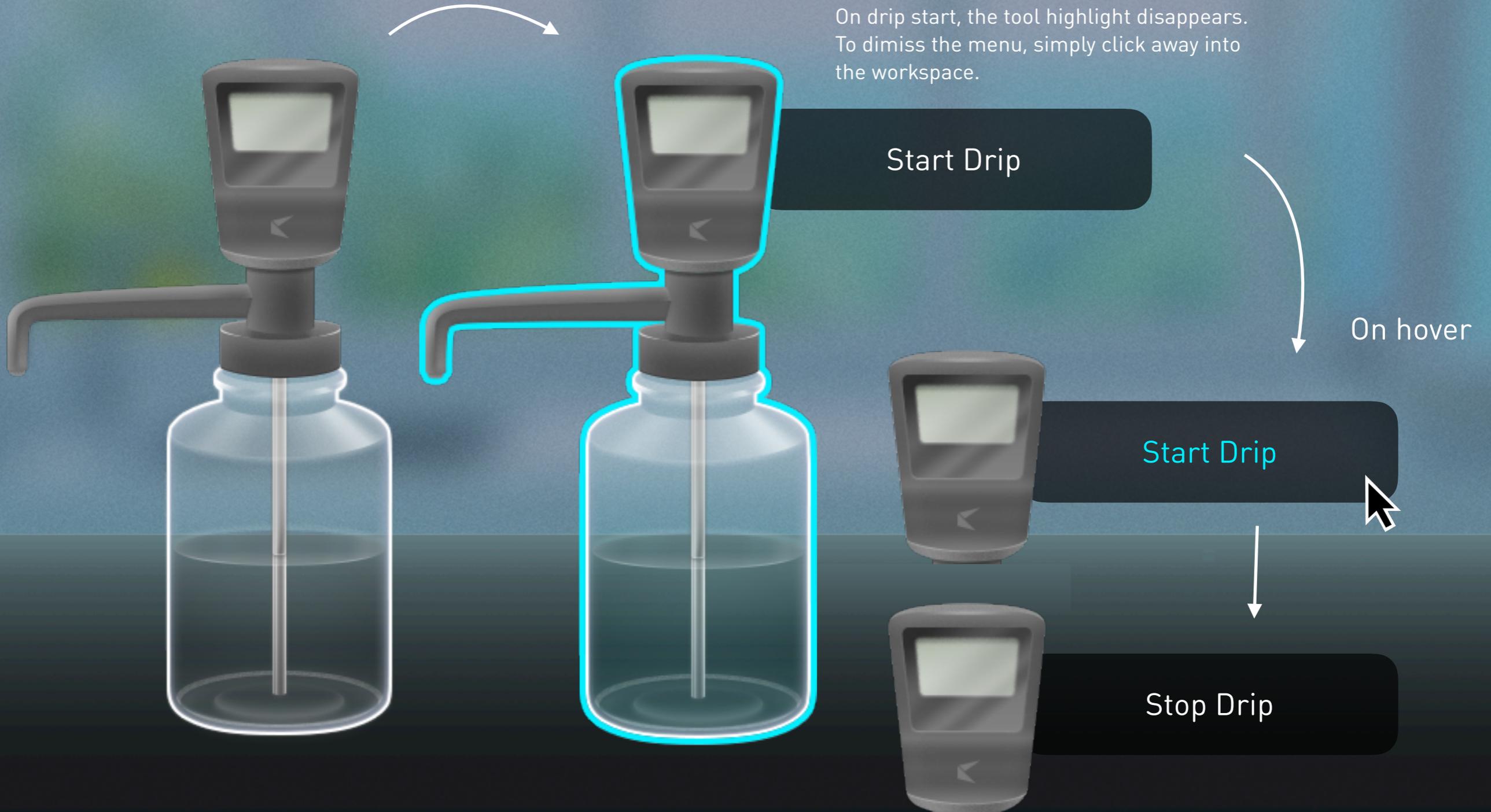


Lab Equipment

Digital Buret

Click on the digital buret. It will highlight and the drip button will appear. Simply click on it to start/stop.

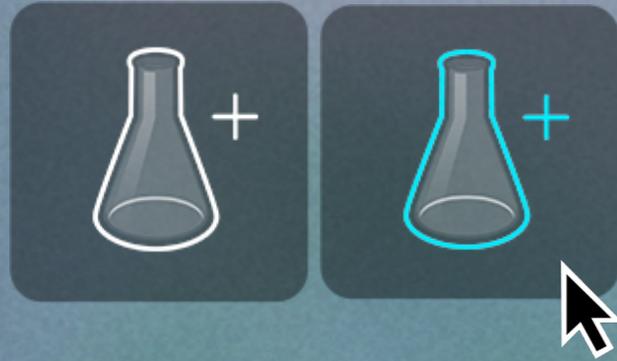
On drip start, the tool highlight disappears. To dismiss the menu, simply click away into the workspace.





Tool Shelf

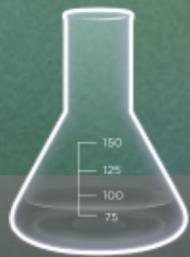
For adding Tools



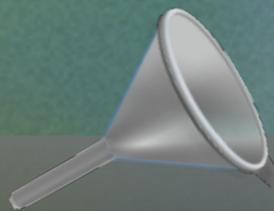
The ever-present icon in the corner suggests adding tools.

On hover, it highlights to invite the user to explore.

A shelf with offered tools appears in its place.



150ml Flask



Funnel



Scoopula



Stirbar

Activated tool can be then dragged onto a tool parking spot or another tool to use.

Once the tool is used/combined, the shelf disappears, replaced by the icon again.

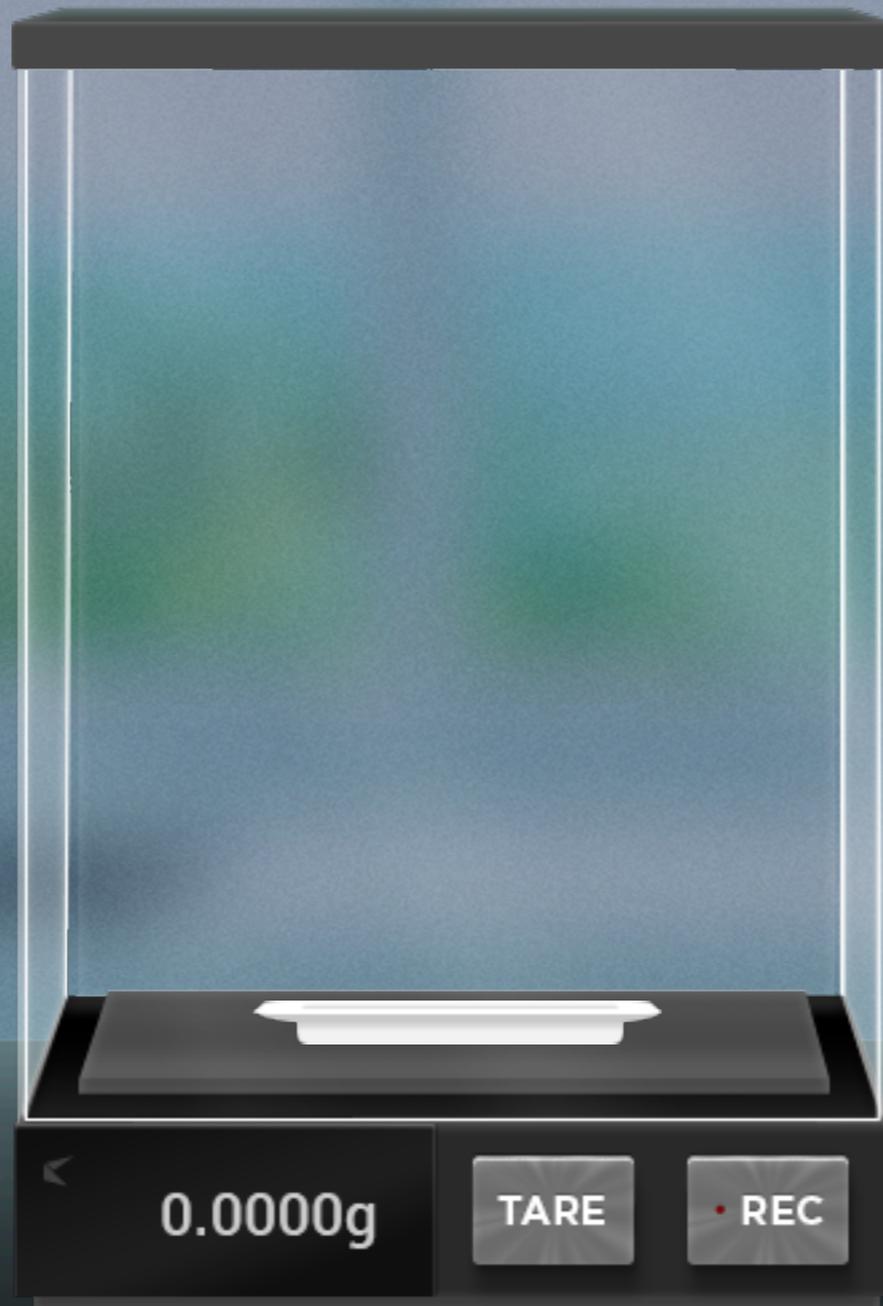
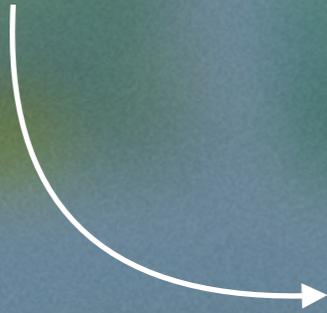
To dismiss the menu, the user can click away into the workspace or click the Tool Shelf Icon.



Lab Equipment

Analytical Balance

Click door to open



Analytical Balance
with Weigh Boat



Weigh Boat
with Powder Solid



Lab Equipment Details

Spectrophotometer

SW: Single wavelength
FW: Full wavelength
Switch between modes with Mode button.

Click on door to open
Drag/use cuvette with equipment once open.

Quartz Cuvette

On-hover highlight for changing nm value



Spectrophotometer
Single Wavelength, Closed



Spectrophotometer
Full Wavelength, Open