

# Equipment Used In These Labs

Choose borosilicate glass, not plastic, for beakers, test tubes, and other basic lab equipment. This is a list of all the lab equipment used in Layers of Learning Chemistry, along with substitutions. In addition, there are household items sometimes required like balloons, mixing bowls, and so on.

Equipment	Max number needed for any one lab	Possible substitutions
Electronic balance - measure to the hundredths .01	1	Some kitchen scales are this accurate
250 ml glass beaker	6	Wide mouth glass canning jars - pint size
600 ml beaker	2	Wide mouth glass canning jars - quart size
250 ml flask with stopper	1	
Burner and stand plus fuel	1	Often a stove top or hot plate will work
Funnel	1	Plastic kitchen type funnel is fine
Filter paper	1	Coffee filters
Graduated cylinder 10 ml and 100 ml - plastic is fine	1 of each	The 100 ml is the most important, get at least that one
Glass stirring rod	1	
Glass test tubes - 16x150mm with at least one stopper	6	Small glass bottles
Test tube rack	1	Can prop test tubes in a beaker
Glass alcohol thermometer	1	Kitchen thermometer
Ring stand and clamp	1	Can use test tube tongs to hold in a flame
Safety goggles	1 for each person, make sure they fit	Safety glasses are okay
Disposable gloves	1 box, but you may need multiple sizes	
Dropper	1	
Wooden splints	1 package	Coffee stirrers
Fire extinguisher	1	Keep one in your kitchen (or wherever you do labs)