



DIV. C CHEMISTRY LAB EQUIPMENT LIST

See General Rules, Eye Protection & other Policies on www.soinc.org as they apply to every event.

Each team may bring any or all of the items listed below for use in Division C Chemistry Events. Teams not bringing these items will be at a disadvantage as Event Supervisors will not provide the listed lab equipment. A penalty of up to 10% may be given if a team brings prohibited lab equipment to the event.

Item	Expected Use
Box	Containing all of the kit materials
Graduated Cylinders (10 - 100 mL)	Measuring volumes
Beakers (50 - 500 mL)	Doing reactions, developing chromatograms
Erlenmeyer Flasks (10 - 250 mL)	Doing reactions
Test Tubes	Mix Chemicals, heat chemicals
Test Tube Brush	Clean Test Tubes
Test Tube Holder	Holds test tubes for heating
Test Tube Rack	Hold Test Tubes
Spot Plates	For semi-micro scale reactions, testing solubility, pH
Petri Dishes	Doing reactions, developing chromatograms
Slides	To put hairs, crystals, or fibers on for use with a microscope
Cover Slips	To cover & prevent items from coming off slides
Droppers	Add small amounts of liquids to reactions
Spatulas or spoons	Getting small amounts of solids out of containers
Metal Tongs, Forceps, or Tweezers	Holding & retrieving objects
Stirring Rods	Stirring mixtures
Thermometer	Determining the temperature of a solution
pH paper/meter	Test acidity or alkalinity of solution
Hand Lens	Magnification of small items for identification
Flame Loop	For identification of ions in a compound
Filter Paper	Filter solids from liquids
Funnel	Hold Filter Paper
9V battery	Electrolysis
Alligator Clip Wires	Connecting meters to metals
Nail	Electrolysis
Piece of Cu metal	Electrolysis
Piece of Zn metal	Electrolysis
Multimeter	Measuring current, voltage, and resistivity
9V or less Battery Conductivity Tester	Determining ionic strength of solution
Calipers - mechanical, not digital	Measuring lengths very precisely
Paper Towels	Cleaning
Pencil	Writing, Marking Chromatogram
Ruler	Measuring lengths
Magnets	For extraction and identification of iron filings
Cobalt Blue Glass	To filter out any sodium that might contaminate flame test from hands