

# Basic Lab Equipment Needed for High School Lab

(24 students per lab)

We recommend that you print this guide and use it as a resource when shopping at Carolina.com.



## Essential Products for Chemistry – High School

Description	Item Number
Buffer, pH 4, 500 mL	849653
Buffer, pH 7, 500 mL	849683
Buffer, pH 10, 500 mL	849713
Carolina™ Digital Spectrophotometer	653303
Carolina™ Molymod® Molecular Model Set	840181
Economy Atomic Model Class Set	840243
Hydrión® Spectral pH Strips, pH 0-14, Pack of 100	894726
Interactive Atom Class Set	840233
Magnetic Water Classroom Pack	840141
Molymod® Atomic Orbital Set	840188
Molymod® Shapes of Molecules Set	840187
Periodic Table of the Elements Chart, Large	579620
Test Strip, Litmus Blue, Pack of 12	895390
Test Strip, Litmus Red, Pack of 12	895510

Chemicals:	
Acetic Acid, 1 M, Laboratory Grade, 1 L	841333
Acetone, Laboratory Grade, 500 mL	841481

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## Essential Products for Chemistry (continued)

Description	Item Number
<b>Chemicals (continued):</b>	
Ammonium Hydroxide, 1 M, Laboratory Grade, 1 L	844033
Bogen Universal Indicator, Laboratory Grade, 100 mL	848263
Calcium Carbonate, Laboratory Grade, 500 g	851750
Calcium Chloride, Granular, Laboratory Grade, 500 g	851870
Copper Sulfate, Pentahydrate, Laboratory Grade, 500 g	856550
Corn Starch, Powder, Laboratory Grade, 500 g	892502
Dextrose, Monohydrate, Powder, Laboratory Grade, 500 g	857488
Ethanol, 70%, Laboratory Grade, 500 mL	861261
Food Coloring (4 assorted colors)	898030
Hydrochloric Acid, 1 M, Laboratory Grade, 500 mL	847841
Hydrochloric Acid, 6 M, Laboratory Grade, 500 mL	867868
Iodine-Potassium Iodide (IKI) Solution, Laboratory Grade, 500 mL	869055
Iron (III) Chloride Solution, 1 M, Laboratory Grade, 100 mL	862480
Iron Filings, 12 oz	758322
Magnesium, Ribbon, Laboratory Grade, 25 g	873120
Methanol, Reagent Grade, 500 mL	874950
Phenolphthalein, 1% in 95% Alcohol, Laboratory Grade, 500 mL	879995
Potassium Chloride, ACS Grade, 500 g	882910
Potassium Hydroxide, 1 M, Laboratory Grade, 500 mL	883497
Potassium Iodide, Laboratory Grade, 100 g	883789
2-Propanol, 70%, Laboratory Grade, 500 mL	884831
Sodium Acetate, Trihydrate, Reagent Grade, 500 g	888050
Sodium Bicarbonate (baking soda), Laboratory Grade, 2 kg	888361
Sodium Borate, Decahydrate, Laboratory Grade, 500 g	888560
Sodium Carbonate, Anhydrous, Reagent Grade, 500 g	888770
Sodium Chloride, ACS Grade, 500 g	888880
Sodium Hydroxide, 1 M, Laboratory Grade, 500 mL	889571
Sodium Hydroxide, 3 M, Laboratory Grade, 500 mL	889585
Sodium Polyacrylate, Snow Polymer, Laboratory Grade, 100 g	891500

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## Essential Products for Chemistry (continued)

Description	Item Number
<b>Chemicals (continued):</b>	
Sulfuric Acid, 1 M, Laboratory Grade, 1 L	893423
Sulfuric Acid, 3 M, Laboratory Grade, 500 mL	893431
Zinc, Sheet, 1/32" thick, Laboratory Grade, 6 x 12"	899346

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## Essential Products for Physical Sciences – High School

Description	Item Number	Qty Needed for 24 Students Working in Groups of 3
Acrylic Lens Set, 38 mm	754900	1
Alligator Clip Leads, 12", Pack of 10	975542	2
Aluminum Weigh Boats, Pack of 100	702338	1
Ball and Ring Apparatus	753370	1
Balloons, Round, 9", Pack of 100	974032	1
Bicycle Wheel Gyroscope	752198	1
Carolina™ Molymod® Molecular Model Set	840181	1
Carolina™ Stopwatch	962106	8
Chemical Spill First Response Kit	647005	1
Clamp Pulley	752023	8
Cloud Chamber	759240	8
Collapsible Can	752900	1
Compass, Pencil, School	644375	24
Constant Speed Vehicle	751484	8
Crucible, High Form 15 mL	742501	8
DC Motor	755990	8
Deluxe Density Cube Set	752476	1
Economy Atomic Model Class Set	840243	1
Economy Digital Timer and Photogate	751831	8
Fan Cart	751497	1
Fire Blanket	646919	1
Fire Syringe	753600	1
Friction Apparatus	751842	8
Gas Law Apparatus	840412	8
Glass Stir Rods, 10 x 300 mm, Pack of 12	711311	2
Hall's Carriage	751480	8
Heavy-Duty Fire Extinguisher (2.5 lb)	646945	1
Interactive Atom Set	840228	1

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## Essential Products for Physical Sciences (continued)

Description	Item Number	Qty Needed for 24 Students Working in Groups of 3
Kimwipes®, 15 x 17", Box of 140	633951	2
Lead with Alligator Clips	756498	8
Meter Stick	702620	24
Mortar and Pestle, Porcelain, 320 mL	742894	8
Narrow Coiled Spring	754098	1
Ohaus® Pull-Spring Scales, 1,000 g x 25 g/10 N x 0.25 N	702059	8
Ohaus® Pull-Spring Scales, 100 g x 1 g	702050	8
Ohaus® Pull-Spring Scales, 2,000 g x 50 g/20 N x 0.5 N	702061	8
Ohaus® Pull-Spring Scales, 200 g x 2 g	702051	8
Ohaus® Pull-Spring Scales, 250 g x 10 g/2.5 N x 0.1 N	702056	8
Ohaus® Pull-Spring Scales, 5,000 g x 100 g/50 N x 1 N	702062	8
Ohaus® Pull-Spring Scales, 500 g x 20 g/5 N x 0.2 N	702058	8
Ohaus® Pull-Spring Scales, 500 g x 5 g	702052	8
Oily Waste Can	647173	1
OSHA-Compliant First Aid Kit	646512	1
Overflow Can	752451	8
Periodic Table of the Elements Chart, Large	579620	2
Protractor, 6", Pack of 12	917440B	3
Resonance Apparatus	754310	8
Rotating Platform	752215	1
Ruler, Metric and US, Plastic, Pack of 12	702611	2
Ruler, Metric, Pack of 10	702613	3
Slotted Mass Set with Weight Hanger	751442	8
String, Super Twine, 200-ft Roll	973423	3
Tape Measure, Metric, Pack of 10	973006	1
Thermometer Rack	745485	1
Unbreakable Mirror, 5 x 7"	754993	8
Vernier® Caliper	702647	8
Wave Demonstration Set	754100	1

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## Essential Products for Physical Sciences (continued)

Description	Item Number	Qty Needed for 24 Students Working in Groups of 3
<b>Chemicals:</b>		
Acetic Acid, 1 M, Laboratory Grade, 1 L	841333	1
Acetone, Laboratory Grade, 500 mL	841481	1
Ammonium Hydroxide, 1 M, Laboratory Grade, 1 L	844033	1
Bogen Universal Indicator	848263	1
Buffer, pH 4	849655	1
Buffer, pH 7	849685	1
Buffer, pH 10	849714	1
Calcium Carbonate, Laboratory Grade, 500 g	851750	1
Calcium Chloride, Granular, Laboratory Grade, 500 g	851870	1
Copper Electrodes, Pack of 12	757488A	1
Copper Sulfate Pentahydrate, Laboratory Grade, 500 g	856550	1
Corn Starch, Powder, Laboratory Grade, 500 g	892502	1
Dextrose, Monohydrate, Powder, Laboratory Grade, 500 g	857488	1
Ethanol, 70%, Laboratory Grade, 500 mL	861261	1
Food Coloring, Assorted Colors, Pack of 4	972159	1
Hydrochloric Acid, 1 M, Laboratory Grade, 500 mL	847841	1
Hydrochloric Acid, 6 M, Laboratory Grade, 500 mL	867868	1
Iodine-Potassium Iodide (IKI) Solution, Laboratory Grade, 500 mL	869055	1
Iron (III) Chloride Solution, 1 M, Laboratory Grade, 100 mL	862480	1
Iron Filings, 12 oz	758322	1
Lemon Juice, 8 oz	872320	1
Litmus Blue/Red Test Strips, Pack of 100	895511	1
Magnesium Ribbon, Laboratory Grade, 25 g	873120	1
Methanol, Reagent Grade, 500 mL	874950	1
pH Test Strips, pH 1-12, 5-ft Roll	894980	1
Phenolphthalein, 1% in 95% Alcohol, Laboratory Grade, 500 mL	879995	1
Potassium Chloride, ACS Grade, 500 g	882910	1

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## Essential Products for Physical Sciences (continued)

Description	Item Number	Qty Needed for 24 Students Working in Groups of 3
<b>Chemicals (continued):</b>		
Potassium Hydroxide, 1 M, Laboratory Grade, 500 mL	883497	1
Potassium Iodide, Laboratory Grade, 100 g	883789	1
2-Propanol, 70%, Laboratory Grade, 500 mL	884831	1
Sodium Acetate Trihydrate, Crystal, Reagent Grade, 500 g	888050	1
Sodium Bicarbonate (baking soda), Laboratory Grade, 2 kg	888361	1
Sodium Borate Decahydrate, Laboratory Grade, 500 g	888560	1
Sodium Carbonate, Anhydrous, Laboratory Grade, 500 g	888770	1
Sodium Chloride, ACS Grade, 500 g	888880	1
Sodium Hydroxide, 1 M, Laboratory Grade, 500 mL	889571	1
Sodium Hydroxide, 3 M, Laboratory Grade, 500 mL	889585	1
Sodium Polyacrylate, Snow Polymer, Laboratory Grade, 100 g	891500	1
Sulfuric Acid, 1 M, Laboratory Grade, 1 L	893423	1
Sulfuric Acid, 3 M, Laboratory Grade, 500 mL	893431	1
Zinc, Sheet, $\frac{1}{32}$ " thick, Laboratory Grade, 6 x 12"	899346	1

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## Essential Products for Physics – High School

Description	Item Number	Qty Needed for 24 Students Working in Groups of 3
Absolute Zero Demonstrator	753690	1
Acrylic Prism Set	754930	8
Air Track	751820	2
Alnico Magnet Set	758206	8
Ballistic Pendulum Apparatus	751694	1
9-V Battery, Rechargeable NiMH	756318R	8
AA Battery, Rechargeable NiMH, Pack of 4	756316R	8
AAA Battery, Rechargeable NiMH, Pack of 4	756315R	8
C Battery, Rechargeable NiMH, Pack of 2	756314R	8
D Battery, Rechargeable NiMH, Pack of 2	756317R	8
Battery Charger, NiMH (for AA and AAA only)	756320	1
Centripetal Force Chamber	752209	1
Class II Red Laser Pointer	755432	8
Cloud Chamber	759240	8
Collision in 2-D Apparatus	751512	8
DC Motor	755990	8
Diffraction Grating, Pack of 12	755230	1
Dynamic Trolley Pair	751493	1
Elasticity of Gases Apparatus	753100	1
Energy Transfer Balls	753609	1
Flying Plane	752224	8
Happy and Sad Balls	751640	1
Hooke's Law Apparatus	751950	8
Inclined Plane Set (with pulley)	751452	8
Laser Refraction Tank	754621	1
Leyden Jar	756237	8
Light Box and Optical Set	755160	6
Light Meter	755166	1

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## Essential Products for Physics (continued)

Description	Item Number	Qty Needed for 24 Students Working in Groups of 3
Linear Polarized Film Slides, Pack of 16	755249	1
Meterstick Optical Bench Set with Meterstick	755073	8
NeuLog™ Physics Bundle	369580	8
NeuLog™ Temperature Logger Sensor	369632	8
NeuLog™ USB Bridge Module	369733	8
NeuLog™ WiFi™ Connection Bundle	369510	8
Precision Linear Expansion Apparatus	753576	8
Resonance Apparatus	754310	8
Ring and Disc Set	751898	1
Safe Spectrum System 8-Tube Power Supply	755502	1
Safe Spectrum System Spectrum Tube, Air	755582	1
Safe Spectrum System Spectrum Tube, Argon	755560	1
Safe Spectrum System Spectrum Tube, Carbon Dioxide	755584	1
Safe Spectrum System Spectrum Tube, Helium	755566	1
Safe Spectrum System Spectrum Tube, Hydrogen	755568	1
Safe Spectrum System Spectrum Tube, Neon	755574	1
Safe Spectrum System Spectrum Tube, Nitrogen	755576	1
Safe Spectrum System Spectrum Tube, Water Vapor	755580	1
Second Law of Motion Demonstrator	751520	1
Spectroscope, Pack of 24	755310	1
Spectrum Analysis Chart	579760	1
Sympathetic Resonator Set	754265	1
Tuning Fork Set	754215	1
Tuning Fork, 512 Hz	754208	8
Van de Graaff Generator, 350 kV	756214	1
Van de Graaff Replacement Belt, 350 kV	756215	1
Visual Scientifics Starter Set	753175	8
Whiteboard Optics Set (without board)	755196	1
Wimshurst Machine	756201	1