

Recommended Minimum Core Inventory for NGSS

High School Chemistry, Class of 32 Students

Qty. Per Classroom	Equipment / Supplies	Item Number	2021 List Price	Total
SAFETY EQUIPMENT				
1	Acid Corrosive Storage Cabinet	528445	\$626.19	\$626.19
1	Corrosive Storage Cabinet	528446	\$1,009.95	\$1,009.95
1	Chemical Spill Kit	1491078	\$161.39	\$161.39
1	Chemical Storage Reference	Web URL		
1	Emergency Shower and Eyewash	572443	\$3,135.95	\$3,135.95
1	Gravit-Eye Portable Eye Wash Station, 16 gallon	1320143	\$346.69	\$346.69
1	Fire Blanket w/ Hanging Pouch, 6' L x 5' W	1488340	\$151.49	\$151.49
1	Dry Chemical Fire Extinguisher	1471240	\$158.39	\$158.39
1	First Aid Station for 25 people	1451983	\$72.19	\$72.19
1	Flammables Storage Cabinet, 23-1/4" x 35" x 12 gallon, yellow	601016	\$960.95	\$960.95
1	Fume Hood Labconco Basic 47	526701	\$10,665.29	\$10,665.29
32	Indirect Vent Safety Goggles	577927	\$3.89	\$124.48
1	Goggle Sanitizer Cabinet	1574050	\$919.99	\$919.99
32	Rubberized Aprons 27" x 42"	589239	\$8.89	\$284.48
EQUIPMENT / SUPPLIES				
1	Balance, Ohaus Pioneer Precision, 0.001 mg, 160g capacity	2001994	\$1,133.29	\$1,133.29
5	Balance, Ohaus Navigator Electronic .01g, 510g capacity	2012765	\$328.49	\$1,642.45
3	Beakers, 50 mL, Pyrex Vista Low Form Borosilicate pk/12	529623	\$37.59	\$112.77
3	Beakers, 100 mL, Pyrex Vista Low Form Borosilicate pk/12	529624	\$37.59	\$112.77
2	Beakers, 250 mL, Pyrex Vista Low Form Borosilicate pk/12	529626	\$40.09	\$80.18
2	Beakers, 400 mL, Pyrex Vista Low Form Borosilicate pk/6	529627	\$47.19	\$94.38
2	Beakers, 1000 mL, Pyrex Griffin Low Form Borosilicate pk/6	594045	\$73.29	\$146.58
8	Beaker tongs	563630	\$6.49	\$51.92
1	Bell jar	590802	\$126.69	\$126.69
4	Bottle, carboy round, LDPE 10 L	1503924	\$54.79	\$219.16
4	Bottle, carboy round, LDPE 5 L	1503923	\$36.99	\$147.96
2	Bottle, narrow mouth, 1000 mL pk/6	583528	\$42.19	\$84.38
2	Bottle, narrow mouth, 500 mL pk/12	583525	\$47.79	\$95.58
2	Bottle, narrow mouth, 250 mL pk/12	583522	\$33.79	\$67.58
2	Bottle, narrow mouth, 125 mL pk/12	582673	\$23.49	\$46.98
1	Bottle, wide mouth, 125 mL pk/12	1399983	\$28.59	\$28.59
1	Bottle, wide mouth, 500 mL pk/12	1399985	\$59.09	\$59.09
2	Glassware Disposal Box	581649	\$107.69	\$215.38
2	Brushes, bottle/ beaker	574034	\$5.19	\$10.38

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2	Brushes, burette	1399063	\$5.09	\$10.18
4	Brushes, test tube	560098	\$9.39	\$37.56
8	Buchner funnel, 350 mL	1488833	\$23.49	\$187.92
8	Bunsen burner ignitors, strikers, lighters	561124	\$3.99	\$31.92
16	Bunsen Burner Natural Fuel	569006	\$18.19	\$291.04
16	Buret, 50 mL x 0.1 mm Pyrex Modular Geissler	593571	\$112.39	\$1,798.24
8	Buret Clamp, Double Polyethylene	581355	\$10.59	\$84.72
1	Utility Cart, 34-3/8 in W X 17-1/2 in D X 33 in H,	574109	\$254.95	\$254.95
2	Micro centrifuge tubes pk/50	99-0272	\$4.99	\$9.98
3	Corning Mini Plate Spinner by Axygen	2040581	\$713.29	\$2,139.87
4	Counter brush	1367761	\$36.39	\$145.56
8	Crucible tongs	563618	\$4.49	\$35.92
2	Crucibles, 30 mL, with cover pk/6	1488792	\$39.39	\$78.78
8	Demonstration molecular model set	573831	\$56.49	\$451.92
1	Desiccant, Calcium Chloride 12 mesh 500g	578226	\$7.39	\$7.39
1	Desiccator plate, 115 mm dia white	1488870	\$23.09	\$23.09
1	Desiccator, 10 inches, Glass	2022105	\$209.59	\$209.59
16	Diffraction gratings/ spectrosopes	1399065	\$44.19	\$707.04
17	Dropping (dispensing) bottles, 30 mL pk/6	581556	\$28.09	\$477.53
1	Lab Oven Gravity Convection 600 Watts - 10Gc	592641	\$773.29	\$773.29
1	Drying Rack, Wall Mount ABS Plastic, White, 2-Tier	1292803	\$273.59	\$273.59
1	Dust Pan	458156	\$13.49	\$13.49
1	Chemical Observation Set	1368247	\$147.59	\$147.59
16	Evaporating dish, porcelain	574218	\$2.29	\$36.64
8	Meker Burner Natural Gas	1399105	\$79.29	\$634.32
1	Flasks, Erlenmeyer, 1 L pk/6	529662	\$59.99	\$59.99
2	Flasks, Erlenmeyer, 125 mL pk/12	529659	\$48.39	\$96.78
2	Flasks, Erlenmeyer, 250 mL pk/12	529660	\$50.19	\$10.38
2	Flasks, Erlenmeyer, 2 L	593700	\$26.99	\$53.98
8	Flask, volumetric, 100 mL	593610	\$28.89	\$231.12
16	Burner Lighter	561124	\$3.99	\$63.84
16	Forceps	595230	\$2.19	\$35.04
16	Funnels, plastic, 2.75" diameter pk/12	593952	\$152.09	\$2,433.44
8	Funnels, plastic, 5" diameter	594312	\$5.59	\$44.72
8	Gas measuring tube, glass graduated, 50 mL	584277	\$19.79	\$158.32
25	Glass Tubing 1lb	584265	\$9.39	\$234.75
2	Graduated Cylinder 10 mL pk/12	531710	\$70.69	\$141.38
2	Graduated Cylinder 50mL pk/12	531713	\$70.69	\$141.38
2	Graduated Cylinder 100 mL pk/12	531715	\$70.69	\$141.38
2	Graduated Cylinder 500mL	593661	\$52.59	\$105.18



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2	Graduated Cylinder 1000 mL	593664	\$88.79	\$177.58
8	Hot Hands Hand Protector	568217	\$26.79	\$214.32
8	Hot Plate - Variable Temperature	528332	\$217.29	\$1,738.32
8	Inoculating loop, Nichrome	573834	\$3.79	\$30.32
1	Magnetic stirrer bar set	581313	\$40.79	\$40.79
1	Frey Scientific Magnetic Stirrer with Hot Plate, 5 x 5 Inches	1488088	\$197.59	\$197.59
8	Magnifying glass	086239	\$11.79	\$94.32
1	Glass Dropper Pipettes 3 inches pk/12	569723	\$3.59	\$3.59
2	Aluminum Electrode Strips	1296261	\$2.29	\$4.58
2	Carbon Electrode Strips	1296110	\$6.49	\$12.98
2	Copper Electrode Strips	1296262	\$4.29	\$8.58
2	Iron Electrode Strips	1296263	\$2.19	\$4.38
2	Tin Electrode Strips	1296108	\$6.39	\$12.78
2	Zinc Electrode Strips	1296305	\$4.29	\$8.58
8	Conductivity tester	530794	\$34.69	\$277.52
8	Conductivity Pen Meter	1464869	\$86.39	\$691.12
2	Microplates 24 Well pk/12	585837	\$89.49	\$178.98
16	Molecular Model Set 187 Pieces	573831	\$56.49	\$903.84
2	Mortar and Pestle Set, 150 mL, Porcelain	1488824	\$13.59	\$27.18
1	Ohaus ST210 Replacement Electrode	1464880	\$77.29	\$77.29
1	Ohaus pH Pen Meter, 0.1 pH Resolution	1464859	\$65.09	\$65.09
1	Frey Scientific Giant Periodic Chart	1502459	\$157.79	\$157.79
1	Pipettes, Disposable, grad. 5 mL, 150 mm pk/500	1448764	\$25.19	\$25.19
1	Pipettes, Disposable, grad. 5 mL, 138 mm pk/100	1448763	\$13.49	\$13.49
8	Pipette Pump	581493	\$11.69	\$93.52
8	Pneumatic trough, 7" x 10" x 4"	585180	\$40.09	\$320.72
16	Ring Stand, 6x9" base, 24" rod	574242	\$54.29	\$868.64
16	Support Ring 3"	562379	\$8.89	\$142.24
2	Rubber Policeman with Rod pk/12	1429085	\$13.79	\$27.58
2	Plastic Ruler, Inches and Metric 12 in, Clear, pk/10	365433	\$7.19	\$14.38
16	Single Burette Clamp, 3/8 L x 1-3/8 W in, Nickel Plated Steel	1492592	\$6.69	\$107.04
2	Spatula Spoon Combo pk/10	1399426	\$19.79	\$39.58
1	Spectrophotometer	529576	\$1,318.79	\$1,318.79
4	Spectroscope Kit pk/ 2	590100	\$14.99	\$59.96
1	Spectrum Tube Power Supply	1444995	\$286.69	\$286.69
1	Spectrum Tube Hydrogen	1444997	\$47.99	\$47.99
1	Spectrum Tube Helium	1444998	\$47.99	\$47.99
1	Spectrum Tube Neon	1444999	\$47.99	\$47.99
1	Spectrum Tube Carbon Dioxide	1445000	\$47.99	\$47.99
1	Spectrum Tube Air	1445001	\$47.99	\$47.99



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1	Spectrum Tube Water Vapor	1445002	\$47.99	\$47.99
1	Spectrum Tube Argon	1445003	\$47.99	\$47.99
1	Spectrum Tube Nitrogen	1445004	\$47.99	\$47.99
16	Spotting/Color Plate, 12 Wells, Porcelain	1488854	\$8.19	\$131.04
1	Waterwise 4000 Compact Portable Water Purifier/Distiller	529617	\$513.29	\$513.29
9	Stirring Rods 6", pk/12	525526	\$4.79	\$43.11
8	Stopwatch, 100 min, 1/100th sec pk/2	576952	\$6.69	\$53.52
2	Stoppers Assorted Rubber, 1 lb.	574115	\$13.29	\$26.58
1	Stoppers Assorted Cork pk/100	569486	\$34.29	\$34.29
4	Storage Box, 36 Quarts, Clear/Black	1397154	\$19.99	\$79.96
2	Syringes, 30cc, Pack of 6	190-9270	\$10.99	\$21.98
4	Test Tube Clamps pk/6	568490	\$8.49	\$33.96
8	Test Tube Rack, 40 Tube, Polypropylene, Blue	1503934	\$20.59	\$164.72
2	Test Tubes 16mm x 150mm pk/72	593478	\$67.39	\$134.78
8	Frey Scientific Student Grade Partial Immersion Spirit Thermometer, -20 to 110 C	1017388	\$3.69	\$29.52
8	Crucible Triangle 2.5 inches	574113	\$2.39	\$19.12
3	Vacuum Tubing, 3/16" ID, 5/16 OD 50 Feet	1477595	\$26.69	\$80.07
1	Vacuum Pump	527310	\$1,106.59	\$1,106.59
8	Utility carrier tray	1016974	\$21.99	\$175.92
2	Eisco Student Voltaic Cell & Porous Cup	2010813	\$63.49	\$126.98
1	Volumetric Flasks with Caps, Pyrex Vista 500 mL pk/6	531736	\$125.89	\$125.89
1	Volumetric Flask, Pyrex Vista 1000 mL	529676	\$47.19	\$47.19
8	Wash Bottle, Polyethylene 250 mL	581211	\$5.89	\$47.12
4	Watch Glasses, Borosilicate, 90mm, pk/12	593313	\$48.99	\$195.96
5	Weighing Boats with Tabs Aluminum pk/100	1428543	\$10.39	\$51.95
3	Ceramic Fiber Wire Gauze 4 x 4 inches, pk/6	584256	\$6.29	\$18.87
1	Wrench, 8" Adjustable	1047809	\$51.49	\$51.49
CONSUMABLES				
1	Aluminum Foil, 12" x 25'	1584507	\$5.29	\$5.29
1	Balloons, package of 144	200099	\$19.99	\$19.99
1	Filter paper, qualitative #613, 9cm pk/100	598992	\$8.89	\$8.89
1	Paper Towels pk/30	1322721	\$52.79	\$52.79
1	Parafilm 2" x 250ft	1603820	\$46.39	\$46.39
2	Vinyl Gloves, Latex Free Powder Free, Sz. Medium, pk/100	1311207	\$18.19	\$36.38
2	Vinyl Gloves, Latex Free, Powder Free, Sz. Large pk/100	1311208	\$18.19	\$36.38
2	Write-On Label Tape, 3/4 in X 40 yd, White, Pk/4	1475769	\$73.79	\$147.58
5	Cellulose Sponge, 6 x 3-1/2 x 1-3/8 Inches, Medium	085845	\$2.89	\$14.45
2	Styrofoam Cups - 6oz - pk/50	01-1119	\$6.59	\$13.18
1	Stopcock/Vacuum Grease	593076	\$72.09	\$72.09



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1	Eisco Wood Splints, Pack of 1000	2029056	\$12.19	\$12.19
ESSENTIAL CHEMICALS				
1	Acetic Acid Glacial ACS Grade 2.5L Safety Bottle	577626	\$128.29	\$ 128.29
1	Acetone Lab Solution 500mL	580779	\$12.29	\$12.29
1	Aluminum Chloride Reag 100g	1495503	\$21.19	\$21.19
1	Aluminum Nitrate Reag 500g	577740	\$23.79	\$23.79
1	Ammonium Chloride, Reag Grade 500g	577797	\$12.29	\$12.29
3	Ammonium Hydroxide Reag Grade Sol. 6.0M 500mL	1462172	\$9.39	\$28.17
1	Boiling Chips	1495524	\$5.99	\$5.99
2	Buffer Solution pH10 500mL	578136	\$10.09	\$20.18
2	Buffer Solution pH4 500mL	578115	\$11.19	\$22.38
3	Calcium Chloride Anhydrous Lab Lumps 4-8 Mesh 500g	578220	\$7.19	\$21.57
5	Calcium Metal Reag 100g	H578184	\$21.49	\$107.45
1	Calcium Nitrate 4 Hydrate Lab Grade Granular 500g	578271	\$24.09	\$24.09
5	Candles, votive pk/10	030-0442	\$10.99	\$54.95
1	Charcoal, Lab Grade Activated 500g	578334	\$24.89	\$24.89
1	Citric Acid 500g	578406	\$17.69	\$17.69
1	Cooper II Carbonate 500g	578556	\$73.39	\$73.39
1	Cooper II Chloride Anhydrous Reag Powder 500g	578568	\$52.99	\$52.99
1	Cooper II Nitrate 2.5 Hydrate Reag Crys 100g	578577	\$13.29	\$13.29
1	Copper Sulfate Reag Grade Fine Crystals 500g	578604	\$18.59	\$18.59
1	Copper Metal Turnings 100g	578505	\$22.79	\$22.79
2	Ethyl Alcohol Reag solution 4L	578709	\$55.69	\$111.38
9	Food Coloring set with 4 colors	576242	\$12.69	\$114.21
3	Grease Pencils Black pk/12	1125448	\$18.79	\$56.37
1	Hydrochloric Acid Sol. Conc 2.5L	578928	\$110.19	\$110.19
2	Hydrogen peroxide 3% Sol 500mL	578982	\$15.09	\$30.18
1	Iron II Chloride Reag 100g	578790	\$14.99	\$14.99
1	Iron III Chloride Reag 100g	578751	\$12.39	\$12.39
1	Iron Filings 100g	1016745	\$4.29	\$4.29
1	Iron II Sulfate 7 Hydrate Lab 500g	1495549	\$9.39	\$9.39
1	Iron III Nitrate Reag 100g	578766	\$8.19	\$8.19
1	Lycopodium Lab powder 100g	579189	\$48.29	\$48.29
1	Magnesium Ribbon	573162	\$6.19	\$6.19
1	Magnesium Sulfate 7 Hydrate Lab crys 2.5kg	579273	\$30.09	\$30.09
3	Manganese IV Dioxide Reag powder 100g	579300	\$12.39	\$12.39
5	Manganese Nitrate Reag Sol 50% 100mL	1495572	\$15.69	\$78.45
1	Methanol Reag Grade Safety Bottle 4L	573804	\$31.49	\$31.39
1	Mineral Oil 1L	1016751	\$28.69	\$28.69
1	Nickel Nitrate 6 Hydrate Reag crystal 100g	579510	\$21.19	\$21.19



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1	Nitric Acid Reag acs 68-70% sol. 500mL	H579540	\$45.49	\$45.49
1	Oxalic Acid Dihydrate Lab Crystal 500g	579564	\$28.09	\$28.09
1	Phenol Red 5g	579630	\$15.09	\$15.09
1	Phenolphthalein, Lab Powder 100g	579612	\$14.79	\$14.79
3	Phenolphthalein, Lab Sol 1% 500mL	579624	\$10.49	\$31.47
5	Potassium Bromide Reag Crystal 100g	579684	\$10.29	\$51.45
1	Potassium Hydroxide Lab Sol 0.1M Aqueous Solution 1L	1495589	\$17.89	\$17.89
1	Potassium Iodate Reag Powder 500g	579804	\$198.29	\$198.29
5	Potassium Nitrite Lab grade Crystals 100g	579837	\$18.49	\$92.45
1	Potassium Permanganate 500g	580809	\$25.79	\$25.79
5	Potassium Thiocyanate Reag Crystals 100g	579906	\$12.69	\$63.45
1	Sand 5kg	1515186	\$31.69	\$31.69
1	Silver Nitrate 100g	579990	\$416.49	\$416.49
1	Sodium Metal 125g	H573822	\$105.49	\$105.49
1	Sodium Acetate Trihydrate 500g	580014	\$19.69	\$19.69
1	Sodium Bicarbonate, Lab Powder 2.5kg	568091	\$26.99	\$26.99
1	Sodium Bromide Reag Crystal 100g	1495599	\$9.29	\$9.29
1	Sodium Carbonate Anhydrous, Reg 2.5kg	1016759	\$28.69	\$28.69
3	Sodium Chloride Gran Reag 735g	576236	\$8.69	\$26.07
1	Sodium Fluoride Reag Powder 100g	1495604	\$13.39	\$13.39
3	Sodium Hydroxide Lab pellet 500g	580173	\$16.59	\$49.77
1	Sodium Metabisulfite 500g	1495607	\$16.29	\$16.29
1	Sodium Phosphate Tribasic 500g	580731	\$22.09	\$22.09
1	Sodium Phosphate Dibasic 500g	1495608	\$32.29	\$32.29
1	Sodium Phosphate Monobasic 500g	1515187	\$38.49	\$38.49
1	Sodium Sulfate 500g	580296	\$8.79	\$8.79
1	Sodium Thiosulfate 500g	1014905	\$16.29	\$16.29
1	Starch Soluble powder 500g	580359	\$10.49	\$10.49
1	Strontium Chloride 6 hydrate Reag granular 500g	580398	\$27.19	\$27.19
1	Sucrose 500g	568112	\$17.19	\$17.19
1	Sulfur Precipitated Powder Lab 500g	580452	\$13.59	\$13.59
1	Sulfuric Acid Reag ACS Sol 500mL	580464	\$29.89	\$29.89
2	Universal Indicator 250mL	580593	\$8.89	\$17.78
1	Zinc Tech Grad Mossy 500g	568127	\$31.19	\$31.19
1	Zinc Nitrate 6 Hydrate Lab crystalline flakes 500g	580695	\$38.19	\$38.19
	Total			\$51,457.06
Supplied by teacher				
1	Chemical Waste Containers			
1	Television or digital projector			
1	VGA Adapters for various digital devices			