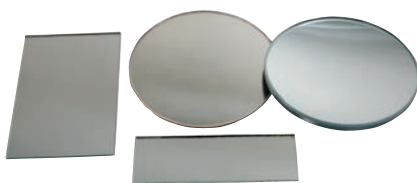


# Recommended Minimum Core Inventory for NGSS

## High School Physics, Class of 32 Students

Qty. Per Classroom	Equipment / Supplies	Item Number	2021 List Price	Total
<b>SAFETY EQUIPMENT</b>				
32	Aprons Vinyl, 27" x 36"	1477657	\$6.09	\$194.88
1	Disposable Aprons, pk/100	2003375	\$9.39	\$9.39
1	Eye Wash Station Double Bottle, 32 oz	529331	\$74.89	\$74.89
1	Fire Blanket	1488340	\$151.49	\$151.49
1	Fire Extinguisher	1469473	\$146.89	\$146.89
1	First Aid Kit, 25 Student	1451983	\$72.19	\$72.19
32	Goggles Direct Vent Fog Free	577918	\$3.89	\$124.48
1	Goggles Sanitizer (holds 35 pairs of goggles)	1574050	\$919.99	\$919.99
<b>EQUIPMENT / SUPPLIES</b>				
<b>Mechanics / Force Equipment</b>				
8	*Accelerometer	1477526	\$30.19	\$241.52
1	Air Track Complete	1592922	\$1,006.69	\$1,006.69
1	Air Table	1577077	\$767.49	\$767.49
1	Archimedes Principle Kit	20-1583	\$95.99	\$95.99
8	Balance (0.1g accuracy)	2012761	\$222.89	\$1,783.12
1	Bicycle Wheel Gyroscope	1539815	\$78.09	\$78.09
8	Boyle's Law Apparatus	589953	\$20.79	\$166.32
8	Cart, halls (4 aluminum low friction wheels, total length 6")	1512359	\$17.49	\$139.92
40	C Clamps, 3"	574122	\$6.29	\$251.60
8	Collision in Two Dimension Kit (track, balls: 5-steel)	1017039	\$20.79	\$166.32
4	Drawing Compasses, pk/12	081885	\$13.99	\$55.96
1	*Electronic Timer / Photogates	792-1100	\$376.00	\$376.00
1	Force Table	30-1510	\$218.69	\$218.69
8	Inclined Plane Set	30-1500	\$55.99	\$447.92
8	Mass Set (1g to 1000g), set 13	1324364	\$207.29	\$1,658.32
16	Meter Sticks	081901	\$2.79	\$44.64
8	Motion Sensor for NeuLog	1526596	\$86.79	\$694.32
1	Newton's Cradle "Collision Balls"	1493984	\$22.69	\$22.59
8	Pendulum Set, drilled ball set 12	1445065	\$59.99	\$479.92
16	Plumb Bobs	583911	\$8.29	\$132.64
4	Protractors, pk/12	084410	\$4.69	\$18.76
16	Pulley Apparatus	532028	\$9.39	\$150.24
20	Ring Stand Clamps, 3"	030-8769	\$10.19	\$203.80
20	Ring Stands, 5" x 8"	574173	\$16.59	\$331.80

Qty. Per Classroom	Equipment / Supplies	Item Number	2021 List Price	Total
40	Rulers, 12 (with metric markings)	089837	\$1.29	\$51.60
8	Spring Scales (1 kg)	193-5894	\$12.79	\$102.32
8	Spring Scales (500 g)	193-5883	\$12.79	\$102.32
8	*Spring Scales (250 g)	193-5872	\$12.79	\$102.32
8	*Stopwatch, pk/2	576952	\$6.69	\$53.52
8	Frey Scientific Portable Stroboscope	1539814	\$494.99	\$3,959.92
8	Weight set, hooked 10 weights 10g–1Kg in plastic holding block	1488752	\$114.19	\$913.52
<b>Mechanics / Thermodynamics Equipment</b>				
1	Ball and Ring Apparatus	589530	\$15.39	\$15.39
8	Calorimeter	599082	\$17.69	\$141.52
8	Conductometer	564649	\$23.89	\$191.12
1	Convection Box	584295	\$31.19	\$31.19
8	Convection of Liquids Tube	598890	\$17.69	\$141.52
8	Heat Transfer Kit	1387286	\$40.49	\$323.92
8	Metals Set for Density and Specific Heat Labs	599154	\$21.69	\$173.52
<b>WAVES/OPTICS EQUIPMENT</b>				
8	Spectroscopes, set 2	590100	\$14.99	\$119.92
8	Lens, semicircular	532033	\$9.99	\$79.92
8	Laser, small pointer	99-6400	\$7.09	\$56.72
8	Lens Set (concave, convex, biconcave, biconvex, prisms)	532036	\$66.39	\$531.12
8	Mirrors, Concave	574260	\$5.09	\$40.72
8	Mirrors, Convex	573171	\$5.29	\$42.32
16	Mirrors, Flat	562388	\$1.39	\$22.24
1	Radiometer, Crookes	181-2055	\$17.89	\$17.89
1	Resonance Tube	561259	\$15.09	\$15.09
1	Ripple Tank and Accessories, (motor-driven rippler bar, vertical light support, shaped wooden barrier blocks, extra glass plate, parabolic reflector, white plastic viewing screen, high power light source, 2 adjustable hand strobe discs)	1396496	\$1,012.09	\$1,012.09
1	Rotating Platform	590262	\$51.99	\$51.99
<b>Spectrum Tubes, Assorted Gases Set</b>				
1	Air Spectrum Tube	1445001	\$47.99	\$47.99
1	Carbon Dioxide Spectrum Tube	1445000	\$47.99	\$47.99
1	Helium Spectrum Tube	1444998	\$47.99	\$47.99
1	Neon Spectrum Tube	1444999	\$47.99	\$47.99
1	Hydrogen Spectrum Tube	1444997	\$47.99	\$47.99
1	Spectrum Tube Power Supply	1444995	\$286.69	\$286.69
16	Super Slinky	580264	\$45.69	\$731.04



Qty. Per Classroom	Equipment / Supplies	Item Number	2021 List Price	Total
16	*Thermometers (-20° to 110°C)	1017390	\$3.69	\$59.04
8	Tuning Fork Set (8 piece set w/variety of frequencies)	531830	\$37.39	\$299.12
1	Tuning Fork Set, resonant	560722	\$53.29	\$53.29
<b>ELECTRICITY AND MAGNETISM EQUIPMENT</b>				
8	Ammeter, dual range 0-1amp and 0-5amp for student use	584733	\$21.29	\$170.32
8	Bar Magnets Pair	568409	\$10.69	\$85.52
16	Circuit Board	573252	\$16.59	\$265.44
2	Basic Electronic Parts	574054	\$116.49	\$232.98
2	Electricity Kit	574169	\$131.99	\$263.98
1	Compass, magnetic, pk/12	030-5887	\$32.99	\$32.99
8	Coulomb's Law Apparatus	589581	\$59.29	\$474.32
8	Electroscope	589779	\$40.59	\$324.72
8	Electrostatic Charge Lab	1559719	\$45.99	\$367.92
16	Electrodes Copper	1296262	\$4.29	\$68.64
16	Electrodes Zinc	1296305	\$4.29	\$68.64
1	Hand-Held Electric Generator	1412715	\$16.39	\$16.39
8	Compass, magnetic pk/4	562352	\$3.19	\$25.52
8	Hybrid Multimeter	1370265	\$654.39	\$5,235.12
1	Van de Graaff generator	527279	\$195.69	\$195.69
1	Wimshurst generator	230-7182	\$228.39	\$228.39
8	Power Supplies, variable output	531970	\$248.79	\$1,990.32
<b>MISCELLANEOUS EQUIPMENT</b>				
1	Barometer, aneroid ,inches, centimeters, & millibars	1387083	\$45.99	\$45.99
8	Clamp, adjustable as to angle, fits rods up to 5/8", aluminum	1503170	\$15.79	\$126.32
1	Vacuum Hose, ID 3/8" (pkg/500 ft)	1477597	\$55.09	\$55.09
1	Vacuum Pump Plate, acrylic fits 9" diameter, hose ID 3/8"	596647	\$167.59	\$167.59
1	Vacuum Pump, 85 liters/min, fits hose ID 3/8"	527310	\$1,106.59	\$1,106.59
	<b>Total</b>			<b>\$32,738.29</b>
<b>* ALTERNATE</b>				
<b>Alternate computer-based probeware/sensors may be used for Accelerometer</b>				
1	NeuLog WiFi Module	N1590619	\$155.99	\$155.99
8	NeuLog Acceleration Sensor	N1526610	\$90.19	\$721.52
<b>Alternate computer-based probeware/sensors may be used for Timer/Photogates</b>				
1	NeuLog WiFi Module	1590619	\$155.99	\$155.99
2	NeuLog Photogate Sensor	1526592	\$49.39	\$98.78



Qty. Per Classroom	Equipment / Supplies	Item Number	2021 List Price	Total
<b>Alternate computer-based probeware/sensors may be used for Spring Scales</b>				
1	NeuLog WiFi Module	1590619	\$155.99	\$155.99
8	NeuLog Force Sensor	1526594	\$112.29	\$898.32
<b>Alternate computer-based probeware/sensors may be used for Stopwatch</b>				
1	NeuLog WiFi Module	1590619	\$155.99	\$155.99
16	NeuLog Photogate Sensor	1526592	\$49.39	\$790.24
<b>Alternate computer-based probeware/sensors may be used for Thermometers</b>				
1	NeuLog WiFi Module	1590619	\$155.99	\$155.99
8	NeuLog Temperature Sensor	1526586	\$34.09	\$272.72
<b>Alternate computer-based probeware/sensors may be used for Multimeters</b>				
1	NeuLog WiFi Module	1590619	\$155.99	\$155.99
8	NeuLog Voltage Sensor	1526584	\$42.49	\$339.92
8	NeuLog Current Sensor	1526585	\$42.49	\$339.92
<b>SUPPLIED BY TEACHER</b>				
	Digital projector			
	VGA Adapters for various digital devices			
	Video camera			

Prices valid through December 31, 2021.