

WEEK #	LAB #	LAB NAME	COMMON ITEMS (can be bought anywhere)	MATERIALS YOU NEED TO PURCHASE OR BORROW- HST (Home Science Tools) or Amazon	Prices/links
				Used in multiple labs	Need to buy asap
1	1	Scientific Method	Sharp pencils-lots	n/a	
			3 different brands of ziplock bags		
			Bowl and Water		
2	2	Measuring and Metrics	metric ruler-1	scale- 100 gram (0.01) \$30	https://www.amazon.com/Weigh-Gram-Digital-Jewelry-Kitchen/dp/B06Y61YW7S/ref=sr_1_5?crid=1J2AMZMBDGH2K&dchild=1&keywords=s+mall+digital+scale&qid=1596062557&srefix=s+mall+digital+sca%2Caps%2C266&sr=8-5
			paper plate-1	or use kitchen scale	
			cotton balls-20	Thermometer-\$2.65	https://www.homesciencetools.com/product/thermometer-plastic-back/
			sponge-1		
			Tap water		

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				graduated cylinder 100 ml-\$6.99	https://www.amazon.com/100ml-Plastic-Graduated-Cylinder-Beaker/dp/B0728C224F/ref=sr_1_2_sspa?dchild=1&keywords=100ml+graduated+cylinder&qid=1597357296&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEyR1dQRU1CR0Q4UFhSJMvUy3J5cHRIZEIkPUEwMDgyODM yTDBCTIM4SDdNS1yJmVuY3J5cHRIZEFkSWQ9QTAxNjg0MjczU09IODZUNjhOMFY3JndpZGdlldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JlZGl yZWN0JmRvTm90TG9nQ2xpY2s9dHJ1ZQ==
				Meter stick \$4.00	https://www.amazon.com/Westcott-10431-Wooden-Meter-Stick/dp/B000J0ARWW
3	3	Conservation of Mass	baking soda, vinegar, balloon (9-12 inch), butter knife, water, empty plastic water bottle (at least 12 oz), plastic or glass cup	Scale from Lab #2	
4	4	Building Atoms	Beads or beans (3 different colors)- need 30 of each, 5 small cups, calculator		
5	5	Metals and Nonmetals			

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			aluminum foil	copper, magnesium, zinc and iron electrodes \$6.40	https://www.homescientools.com/product/electrode-set/?gclid=CjwKCAiAz4b_BRBbEiwA5XIVVpfnwYDnWtpZ6oEj1tccxQvMvzyxqRwBncMRppzK2HudnqdgZIBoCcKwQAvD_BwE
			Hammer	Alligator Wires 2 sets, \$2.45 each	https://www.homescientools.com/product/alligator-clip-leads-2-pack/?refSrc=14524&nosto=no&sto-page-product1
			graphite (mechanical pencil)	mini light bulb-3 (6.3 V) each, need 3 (\$0.75 each)	https://www.homescientools.com/product/bulb-screw-base-6-3-volt/
				mini receptacle for light bulb-3 (1.10 each), need 3	https://www.homescientools.com/product/bulb-holder-1-bulb/
				6 volt battery (will use again in later labs) \$4.99	https://www.amazon.com/Eveready-Volt-Lantern-Battery-1209/dp/B0043CHX38/ref=sr_1_6?hvadid=490225795629&hvdev=c&hvlocphy=9031071&hvnetw=g&hvqmt=e&hvrnd=14209163071205457430&hvtargid=kwd-6909493601&hydadcr=24661_13446932&keywords=6-volt%2Bbattery&qid=1691865637&sr=8-6&th=1

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				sulfur \$7.80	https://www.amazon.com/Raw-Sulfur-Mineral-Specimen-Classrooms/dp/B08KJJYF1Q/ref=sr_1_3?crid=V348ZY9Q6REV&keywords=sulfur+chunk&qid=1691865718&prefix=sulfur+chunk%20Caps%2C137&sr=8-3
6	6	Flame Tests	Teacher Demo	To do at home order this \$49.95	https://www.homesciencetools.com/product/flame-test-lab-kit-aldon/
7	7	Chemical Bonding	small beads or beans from lab # 4, scissors		
8	8	Naming Compounds	red, green and blue crayons-1 Scissors-1 Scotch tape-1	Build dice on last page of lab before coming to class	
9	9	Chemical Reactions	Steel wool-1 lighter or propane torch		
			Baking Soda- 2 tsp.	Test tube clamp \$2.35	https://www.homesciencetools.com/product/test-tube-clamp/
				Test tubes (2) \$2.75	https://www.homesciencetools.com/product/test-tubes-large-16-x-150-mm/
			popsicle stick-1		

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			At home students, you can watch these 2 experiments. These chemicals are expensive.	Silver Nitrate Solution \$13.26	https://www.poolweb.com/silver-nitrate-reagent-2-oz-dropper-bottle?gclid=CjwKCAiAz4b_BRBbEiwA5XIVVoZyzDE2ApqRWkZ4K6zPJ-l69OxczQcUwnpZs8UoPInCKyLrCE3c_BoCxYlQAvD_BwE
			Copper wire	take out of the inside of extra wire you have around the house	
			marble rock-1	Can also by Calcium Carbonate supplement \$4.73	https://www.ralphs.com/p/now-calcium-carbonate-pure-powder/0073373901245?cid=ps_adw.shopgF
			dilute Nitric Acid or Hydrochloric acid	dilute nitric acid \$20 (500 ml) you only need about 100 ml	https://www.amazon.com/LabChem-LC178001-Nitric-Acid-Solution/dp/B01BKWOZXE/ref=sr_1_1?dchild=1&keywords=dilute+nitric+acid+100ml&qid=1608677757&sr=8-1
10	10	To glow or not to glow	Glow sticks	Glow sticks-2 (\$2.50 each)	https://www.homesciencetools.com/product/glow-light-stick-6-green/
11	11	Saturated Solutions	Sugar cubes-4		
			Granulated sugar-4 tsp.		
			Hot water		
			cold water		
			thermometer (C) used in lab #2		
			scale- 100 gram (0.01) \$30 (used in lab #2)		
			Timer (use your phone or kitchen timer)		
			8 small cups		

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12	12	Be A Soda Scientist		pH paper (\$1.95 for 80) Way more than you need	https://www.homesciencetools.com/product/ph-papers-1-14-range-80-pack/
			Pipets or medicine droppers-6	Pack of 10 \$1.50	https://www.homesciencetools.com/product/pipet-disposable-1-ml-10-pack/
				Phenolphthalein- 30 ml \$6.10	https://www.homesciencetools.com/phenolphthalein-solution-30-ml/
		Be Careful- I will show you how to use this. Do not open until I give you instructions	Make into weaker solution. Can replace with baking soda	Sodium Hydroxide -30 grams (\$6)	https://www.homesciencetools.com/search?search_query=sodium+hydroxide+solution
			small cups or test tubes-4	graduated cylinder used in lab #2	
			3 colorless sodas (sprite, seven-up, mineral water, etc)- 30 ml each (6 tsp.)		
13	13	Preparation of Esters		Kit \$53.70 (can be used for multiple students)	https://www.flinnsci.com/preparation-of-esters---student-laboratory-kit/ap4362/
14	14	Alloys			
			penny-1		
			tongs	zinc-mossy \$5.15	https://www.homesciencetools.com/product/zinc-mossy/

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				dilute nitric acid \$20 (500 ml) you only need about 100 ml (used in lab #9)	https://www.amazon.com/LabChem-LC178001-Nitric-Acid-Solution/dp/B01BKWOZXE/ref=sr_1_1?dchild=1&keywords=dilute+nitric+acid+100ml&qid=1608677757&sr=8-1
		Must be made into a dilute solution	Be Careful- I will show you how to use this. Do not open until I give you instructions	Sodium Hydroxide -30 grams	https://www.homesciencetools.com/search?search_query=sodium+hydroxide+solution
				evaporating dish-2 of the 100 ml \$3.70 (each) or (or ceramic dish that can withstand high heat)	https://www.homesciencetools.com/product/evaporating-dish-100-ml/
				Hot plate \$16.99	https://www.amazon.com/Elite-Cuisine-EDB-302BF-Electric-Indicator/dp/B000B2WOWE/ref=sr_1_3?dchild=1&qid=CjwKCAiAz4b_BRBbEiwA5XIVVktbxsLzr4MsHJ5xl26AjvuM3Jb6XRx26IX02rXHaVYfvi5utMJopxoCU9EQA_vD_BwE&hvadid=241632590879&hvdev=c&hvlcphy=9031069&hvnetw=g&hvqmt=e&hvrnd=3257382816321537874&hvtagid=kwd-2656967382&hydadcr=13960_10210657&keywords=hot+plate+single+burner&qid=1608677658&sr=8-3&tag=googhydr-20
15	15	Electrical Circuits	Alligator wires, light bulbs, receptacles and 6V battery from Lab # 5		
			3, AA batteries		
			3, DD batteries		

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			3, 9V batteries		
			Voltmeter (multi-meter)	\$9.13	https://www.amazon.com/DT-830B-Digital-Multimeter-Tester-Voltmeter/dp/B08M64ZBDJ/ref=sr_1_8?crid=16PXDKJN0NHT6&dchild=1&keywords=volt+meters+and+multimeters&qid=1608681838&s=home-garden&prefix=multimeter%2Cgarden%2C228&sr=1-8
				or \$14.95	https://www.homesciencetools.com/product/multimeter-digital/
16	16	Electricity and Magnetism		\$1.70 each, includes 2 magnets	https://www.homesciencetools.com/search?search_query=magnet
			Nail or large bolt	Voltmeter from week 15	
			2 ft. of coated copper wire	Alligator wires and light bulbs from week 15	
				Compass \$3.35	https://www.homesciencetools.com/product/compass-magnetic-1-1-2-diam/
17	17	The Speed of Sound		We will do together in class-requires special equipment. But if you want to buy it is \$23.95	https://www.homesciencetools.com/search.php?search_query=speed+of+sound
18	18	Edison's Lightbulb		We will do together in class-requires special equipment. But if you want to buy your own you can order one.	http://blog.teachersource.com/2010/04/19/reinventing-edison-build-your-own-light-bulb/

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19	19	Light Refraction	Try to borrow a laser pointer	laser pointer \$15	https://www.homesciencetools.com/product/deluxe-red-laser-pointer/
			Computer paper-1	convex, concave lenses \$15.49	https://www.amazon.com/Eisco-Piece-Premium-Optical-Diameter/dp/B00BIKGMZ8/ref=sr_1_1_sspa?hvadid=178115593890&hvdev=c&hvlocphy=9031071&hvnetw=g&hvqmt=b&hvrnd=16987562170185748870&hvtargid=kwd-859354091&hydadcr=27095_10153190&keywords=convex+and+concave+lenses&qid=1691872507&sr=8-1-spons&sp_csd=d
			ruler-1	Concave/convex mirror (6) \$14.95	https://www.homesciencetools.com/search.php?search_query=concave+convex+mirrors
		Solar panel lab		in addition to regular lab	https://www.ccmr.cornell.edu/wp-content/uploads/sites/2/2015/11/PhotovoltaicCells.pdf
20	20	Speed and Acceleration	Wood ramp or hot wheel ramp (5 meters, 16.25 feet)	Meter stick from lab #2	
			1-hot wheel or matchcar		
			Timer (phone)		
			Masking or duct tape- 1 ft.		
			Stack of books		
21	21	Inertia		Meter stick from lab #2	

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			wood molding 1 meter long (40 inches)	outside corner molding \$8.88	https://www.homedepot.com/p/Woodgrain-Millwork-WM-206-11-16-in-x-11-16-in-x-96-in-Solid-Pine-Outside-Corner-Moulding-10001949/203898781
			3 marbles (small, medium, large)	\$9.98	https://www.amazon.com/SallyFashion-Marbles-Assorted-Patterns-Decoration/dp/B094HYD64Z/ref=sr_1_2?crid=3O76Q9N0B4FBW&keywords=marbles+varied&qid=1691874545&srefix=marbles+varied%2Caps%2C139&sr=8-2
			Small cardboard box (jewelery box)	\$9.99/ 10 boxes (something like these)	https://www.amazon.com/Cardboard-Jewelry-Boxes-Pack-Packaging/dp/B09B8PJGX4/ref=sr_1_5?crid=2EXVA3HUHAKJM&keywords=cardboard+jewelery+box&qid=1691874685&s=arts-crafts&srefix=cardboard+jewelery+box%2Caps-crafts%2C130&sr=1-5

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			protractor		https://www.amazon.com/Fiskars-12-95400J-Plastic-Protractor-Received/dp/B00006IB97/ref=sxsts_b2b_sx_fused_v3_desktop_ref-tab-0?content-id=amzn1.sym.97762c05-7545-47e0-ae5c-1110ba2791f0%3Aamzn1.sym.97762c05-7545-47e0-ae5c-1110ba2791f0&crd=F8L8K2LH3FO&cv_ct_cx=protractor&keywords=protractor&pd_rd_i=B00006IB97&pd_rd_r=ae5df6e6-8c27-46cb-939a-dcb538c32800&pd_rd_w=ke4XL&pd_rd_wg=EAlpF&pf_rd_p=97762c05-7545-47e0-ae5c-1110ba2791f0&pf_rd_r=16NMJS5ENGR8KR35WJHG&qid=1691874638&sbo=RZvfv%2F%2FHxDF%2BO5021pAnSA%3D%3D&prefix=protractor%2Caps%2C142&sr=1-8-965fba24-1eed-4536-936e-b447f98a83bc
				Scale-used in lab #2	
22	22	Newton's Third Law	straight straws (no bendy ones)		
			scotch tape		
			3X5 index card		
			rose art clay (very little needed)		
				meter stick from lab #2	
			protractor		
			scissors		
				Scale-used in lab #2	

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23	23	Work and Power	wood dowel 50 cm (or broom stick)	2-16 oz. weights (fishing-\$19) or 2-1 lb. weights	https://www.amazon.com/BLUEWING-Torpedo-Through-Fishing-Saltwater/dp/B0CBKSVJGP/ref=sr_1_3?crid=3FRDSXYLOS0PS&keywords=16%2Boz%2Bweights%2Bset%2Bof%2B2%2Bfishing&qid=1691875585&srefix=16%2Bozweights%2Bset%2Bof%2B2%2Bfishing%2Caps%2C134&sr=8-3&th=1
			masking tape-12 inches	metric spring scale 1000g or 10N (\$9.99)	https://www.amazon.com/Newton-Force-Meter-Spring-Scale/dp/B00VYNT6Q6/ref=sr_1_4?crid=YCMV4Z64LCCJ&keywords=metric+spring+scale&qid=1691875696&srefix=metric+spring+scale%2Caps%2C132&sr=8-4
			meterstick from lab #2		
			strong string-1.5 meters (60 inches)		
			scissors-1		
			stop watch (on phone)		
24	24	KE & PE	same supplies as lab # 20		
			we will be making ramps again and using our cars		
			Tape		
			some coins to tape to car to add mass		

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25	25	Specific Heat	Metal can (old soup can)	Ring stand and clamp \$17.96	https://www.amazon.com/QWORK-Laboratory-Stands-Support-Burette/dp/B08ZSC1H5F/ref=sr_1_5?crid=FJT6CYQ1IPTT&keywords=ring%2Bstand&qid=1691877321&sprefix=ring%2Bstand%2Caps%2C286&sr=8-5&th=1
			Potato chips (2 brands) small snack size	Scale used in lab #2	
			Candle (large)	graduated cylinder used in lab #2	
			aluminum foil	thermometer-used in lab #2	
			tongs to handle hot can		
26	26	Conduction and Insulation	Water	thermometer (C) used in lab #2	
			container for chamber (smaller cup that will fit in larger cup with lids for both)-1 of each (ex. 32 oz and 6 oz)		
			insulation of their choice (newspaper, styrofoam, ... bring about 2 cups of each)		
27	27	Density and Buoyancy	Two different candy bars-buy ones that can be cut in half easily		
			Rulers		
				Scale-used in lab #2	
28	28	Behavior of Gases	Teacher Demo	Watch online and answer question	

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29	29	Science Fair	Look at schedule posted to see what day you will present. Come prepared to class.		
30	30	Science Fair & Last Day Party!	Look at schedule posted to see what day you will present. Come prepared to class.		REV. 08/15/23