


The Carbon TIME project, Michigan State University, and BSCS is in no way endorsing any particular vendor or product in this list. This list is to be used as an example for types of products, locations, and vendors for where these supplies MAY be purchased. Teachers are encouraged to shop for supplies from stores and vendors which best suit their needs.

Unit	Name of item	Suggested Vendors	Link	Cost per item	Item description	Suggested Amount
<b>Multi-unit</b>						
	Digital balance	Amazon--sample search words: digital scale 0.01g, pocket scale 0.01g Scales.net	<a href="http://www.amazon.com">http://www.amazon.com</a>  <a href="http://www.scales.net/catalogsearch/advanced/result?order=price&amp;dir=asc&amp;max-c=&amp;unit-c=156&amp;max-a=.01&amp;unit-a=156">http://www.scales.net/catalogsearch/advanced/result?order=price&amp;dir=asc&amp;max-c=&amp;unit-c=156&amp;max-a=.01&amp;unit-a=156</a>	~\$10-15  \$19.95 and up	sensitive to 0.01g, to at least 200g.	1 (per group of 4 students within one class period)
	Molecular unit model kit	Lab Aids (800)381-8003	<a href="http://lab-aids.com/kits-and-modules/details/Modeling-molecules-of-life-modeling">http://lab-aids.com/kits-and-modules/details/Modeling-molecules-of-life-modeling</a>	\$108.95 & \$15	Item #505, extra O2 is #530A-bd (call to order)	1 kit, plus 1 extra oxygen bag
	Twist ties	Uline  Restaurant supply option	<a href="http://www.uline.com/BL_3154/Paper-Colored-Twist-Ties-Precut">http://www.uline.com/BL_3154/Paper-Colored-Twist-Ties-Precut</a>  <a href="http://www.webstaurantstore.com/bedford-industries-inc-4-yellow-laminated-bag-twist-ties-2000-box/162TIE4PAYL.html">http://www.webstaurantstore.com/bedford-industries-inc-4-yellow-laminated-bag-twist-ties-2000-box/162TIE4PAYL.html</a>	\$8  \$2.44/2000	yellow	1 box of 2000
	Bromothymol Blue	Carolina Biological	<a href="http://www.carolina.com/specialty-chemicals-b-c/bromthymol-blue-004-aqueous-laboratory-grade-500-ml/849165.pr?catId=&amp;mCat=&amp;sCat=&amp;ssCat=&amp;question=bromothymol+blue%2C+0.04%">http://www.carolina.com/specialty-chemicals-b-c/bromthymol-blue-004-aqueous-laboratory-grade-500-ml/849165.pr?catId=&amp;mCat=&amp;sCat=&amp;ssCat=&amp;question=bromothymol+blue%2C+0.04%</a>	\$5.80	0.04% Aqueous, Laboratory Grade, 500 ml	1 bottle
	Aluminum foil	Local grocery store		About \$10	250 sq. foot roll	1
	Masking tape	Local store		About \$2-4	3/4 inch, 60 yards	1
	Markers	Local store		About \$1 per marker	Permanent Fine point markers, Black, Sharpie	1 (per group of 4 students within one class period)
	Plastic petri dishes	Carolina Biological  Ward's Scientific	<a href="http://www.carolina.com/lab-dishes/petri-dishes-polystyrene-disposable-sterile-100-x-15-mm-pk-20/741250.pr?question=petri+dish+plastic">http://www.carolina.com/lab-dishes/petri-dishes-polystyrene-disposable-sterile-100-x-15-mm-pk-20/741250.pr?question=petri+dish+plastic</a>  <a href="https://www.wardsci.com/store/catalog/product.jsp?catalog_number=6430501">https://www.wardsci.com/store/catalog/product.jsp?catalog_number=6430501</a>	\$5.95  \$9.95	Pack of 20 Polystyrene, Disposable, Sterile, 100 x 15 mm  Pack of 25 Polystyrene, Disposable, Sterile, 100 x 15 mm	1 (per student across all class periods)
	Smaller ziploc containers/snapware (for mealworms/decomposers)	Local grocery store, Target, Walmart, etc.	<a href="https://ziploc.com/en/products/containers/rectangle/containers-large-rectangle">https://ziploc.com/en/products/containers/rectangle/containers-large-rectangle</a>	\$2-4	large rectangle, 72 oz.	1 (per group of 4 students across all class periods)
	Ziploc bags	Local grocery store, Target, Walmart, etc.		varies	Quart	1 (per group of 4 students within one class period)
	Post it sticky notes	Local store	<a href="http://www.post-it.com/wps/portal/3M/en_US/PostitNA/Home/Products/~Post-it-Super-Sticky-Notes-3-in-x-3-in-Canary-Yellow-12-Pads-Pack?N=3294644044+4327&amp;rt=rud">http://www.post-it.com/wps/portal/3M/en_US/PostitNA/Home/Products/~Post-it-Super-Sticky-Notes-3-in-x-3-in-Canary-Yellow-12-Pads-Pack?N=3294644044+4327&amp;rt=rud</a>	About \$15 for 12 pack	3 x 3 "	5 per class period
<b>Systems and Scale</b>						
	Ethanol	Local drug store Carolina Biological (please note that you may only ship this item to schools, and not a residential address)	<a href="http://www.carolina.com/specialty-chemicals-d-l/ethanol-95-laboratory-grade-500-ml-use-95-with-alcohol-burners/861281.pr?question=">http://www.carolina.com/specialty-chemicals-d-l/ethanol-95-laboratory-grade-500-ml-use-95-with-alcohol-burners/861281.pr?question=</a>	\$6.00	95% lab grade-500 ml 200 proof	1
	Glass petri dishes	Carolina Biological	<a href="http://www.carolina.com/lab-dishes/pyrex-petri-culture-dish-100-x-15-mm/741158.pr?question=Petri">http://www.carolina.com/lab-dishes/pyrex-petri-culture-dish-100-x-15-mm/741158.pr?question=Petri</a>	\$7.10	100 x 15 mm Pyrex Petri Culture Dish, Glass	1 per class
	Soda water	Local grocery store		\$1-2	1 L	1
	Multi Purpose Lighter	Local grocery store, Target, Walmart, etc.	<a href="http://www.grillwithbic.com/products/product_range.asp">http://www.grillwithbic.com/products/product_range.asp</a>	~\$5	Long, handle lighter	1
	Large clear snapware container (bigger for plants/burning ethanol)	Local Walmart, Meijer, some grocery stores		\$8-12		1 (per group of 4 students within one class period)

		World Kitchen	<a href="http://www.shopworldkitchen.com/storage-food/1098436.html">http://www.shopworldkitchen.com/storage-food/1098436.html</a>	\$12.99	29 cup with handle	
						1 per student
						1 per group of 4 students
					Useful for smaller investigations	1 per 4
		Grocery store			BTB handling containers	Have a stack on hand
<b>Plants</b>						
<b>ALL PLANTS</b>						
	Grow light	HTG, Hydroponics/grow supply store, Amazon (key words grow light, fluorescent)	<a href="http://www.htgsupply.com/products/growbright-2-foot-4-lamp-high-output-t5">http://www.htgsupply.com/products/growbright-2-foot-4-lamp-high-output-t5</a>	\$119.95	2' x 4', 4 bulbs. Should also order light rack for \$24.95	1-2 per class
	Large clear snapware container	Local Walmart, Meijer, some grocery stores World Kitchen	<a href="http://www.shopworldkitchen.com/storage-food/1098436.html">http://www.shopworldkitchen.com/storage-food/1098436.html</a>	\$8-12 \$12.99	10 x 8.5 x 6.75	1 per class period (demo)
	Labels					1 (per 4, for plant labeling)
	(Optional) Fresh Carrot					1 per class
	(Optional) Sponge					1 per class
	Parchment paper OR small paper envelopes	Grocery store	<a href="https://www.meijer.com/product/grocery/household-cleaning/meijer-parchment-paper-45-sq-ft/t1/t1-865/t2/t2-9982/88692614340.uts">https://www.meijer.com/product/grocery/household-cleaning/meijer-parchment-paper-45-sq-ft/t1/t1-865/t2/t2-9982/88692614340.uts</a>	\$2.99	45 sq. ft	1 per plant container for drying down plant material
Paper Towel Protocol (1 Turtle)			Note: This protocol takes ~2 weeks to grow plants before final mass measurements.			
	Foil pans for growing plants	Grocery store or online	Examples: <a href="https://www.meijer.com/product/home/kitchen/bakeware/baking-pans/handi-foil-eco-foil-1-loaf-pans-10/t1/t1-868/t2/t2-9999/t3/t3-375/t4/t4-1153/5209222317.uts">https://www.meijer.com/product/home/kitchen/bakeware/baking-pans/handi-foil-eco-foil-1-loaf-pans-10/t1/t1-868/t2/t2-9999/t3/t3-375/t4/t4-1153/5209222317.uts</a>  <a href="https://smile.amazon.com/Aluminum-Muffin-Cupcake-Ramekin-Disposable/dp/B00JMTDRXM/ref=redir_mobile_desktop?ie=UTF8&amp;dpID=511aFAcRz%2BL&amp;dpPI=1&amp;keywords=foil%204%20oz&amp;pi=SX200_QL40&amp;qid=1469010269&amp;ref=plSrch&amp;ref=mp_s_a_1_2&amp;sr=8-2">https://smile.amazon.com/Aluminum-Muffin-Cupcake-Ramekin-Disposable/dp/B00JMTDRXM/ref=redir_mobile_desktop?ie=UTF8&amp;dpID=511aFAcRz%2BL&amp;dpPI=1&amp;keywords=foil%204%20oz&amp;pi=SX200_QL40&amp;qid=1469010269&amp;ref=plSrch&amp;ref=mp_s_a_1_2&amp;sr=8-2</a>	~2.50/10 units	1 lb. bread loaf pan or other aluminum container that can contain ~20 radish seeds	1 per group of students (minimum 4 per class)
	Foil pan for watering	Grocery store	Example: <a href="https://www.meijer.com/product/home/kitchen/bakeware/baking-pans/handi-foil-eco-foil-1-loaf-pans-10/t1/t1-868/t2/t2-9999/t3/t3-375/t4/t4-1153/5209222317.uts">https://www.meijer.com/product/home/kitchen/bakeware/baking-pans/handi-foil-eco-foil-1-loaf-pans-10/t1/t1-868/t2/t2-9999/t3/t3-375/t4/t4-1153/5209222317.uts</a>	~2.50 ea.	Pan with higher sides and large enough to hold smaller pans	1 -X per classroom
	Cotton Yarn	Grocery store		~2	For wicks to draw up water	1 ball
	Brown paper towel		Unbleached, cheap stuff found in bathrooms and classrooms. Example: <a href="http://www.globalindustrial.com/p/foodservice/paper-cleaning-products/paper-towel-supplies/roll-paper-towels-natural-350ft-roll?infoParam.campaignId=T9F&amp;gclid=CMGT0sD4680CFQsPaQodOi4AUg">http://www.globalindustrial.com/p/foodservice/paper-cleaning-products/paper-towel-supplies/roll-paper-towels-natural-350ft-roll?infoParam.campaignId=T9F&amp;gclid=CMGT0sD4680CFQsPaQodOi4AUg</a>			
	Fertilizer	Grocery store (OR Ionic Grow -- see 2 turtle below)	Miracle grow	~\$5	Use a dilute solution once seeds germinate and turn green	1 box will last a long time

Gel Protocol (2 Turtle)			Note: This protocol takes ~ 4 weeks to grow plants before final mass measurements.			
Plant gel	Online		<a href="http://www.seedman.com/plantge.htm">http://www.seedman.com/plantge.htm</a>	\$3.95	30cc gel crystals	1 pack = 1 gallon ~100 37mL test tubes filled
Ionic grow	HTG		<a href="http://www.htgsupply.com/Product-Ionic-Grow">http://www.htgsupply.com/Product-Ionic-Grow</a>	18.95	8 oz	1
Test tubes	VWR 89000-488 60815-160		<a href="https://us.vwr.com/store/catalog/product.jsp?product_id=4673912">https://us.vwr.com/store/catalog/product.jsp?product_id=4673912</a>	\$530 for 576, \$100 for 72 (+ substantial MSU discount)	37 mL test tubes	1 tube per student or per group of students
	Amazon		<a href="http://www.amazon.com/Pack-20x150mm-Pyrex-Glass-Marking/dp/B001DBF60E">http://www.amazon.com/Pack-20x150mm-Pyrex-Glass-Marking/dp/B001DBF60E</a>	\$12.50 for 6	37 mL test tubes	1 tube per student or per group of students
Test tube rack	Amazon		<a href="http://www.amazon.com/Frey-Scientific-No-Wire-Autoclavable-Polypropylene/dp/B00FGDU3BM/ref=sr_1_13?ie=UTF8&amp;qid=1437567767&amp;sr=8-13&amp;keywords=test+tube+racks">http://www.amazon.com/Frey-Scientific-No-Wire-Autoclavable-Polypropylene/dp/B00FGDU3BM/ref=sr_1_13?ie=UTF8&amp;qid=1437567767&amp;sr=8-13&amp;keywords=test+tube+racks</a>	\$12.00 for 21 tubes	Frey Scientific No-Wire Autoclavable Polypropylene Test Tube Rack for 30mm Tube, 21 Well	About 2 racks per class
	VWR 89498-046		<a href="https://us.vwr.com/store/catalog/product.jsp?catalog_number=89498-046">https://us.vwr.com/store/catalog/product.jsp?catalog_number=89498-046</a>	\$18 for 24 tubes	Snap Racks for 30 mm Tubes, Globe Scientific	About 2 racks per class
<b>Animals</b>						
Mealworms/meal	Pet supply stores, Rainbow Mealworms		<a href="http://www.rainbowmealworms.net/1000-mealworms/">http://www.rainbowmealworms.net/1000-mealworms/</a>	\$6.99	1000 medium mealworms	150 (per group of 4 students across all class periods)
Potatoes	Local grocery store					0.25 potato
Container (To hold Mealworms)	Local grocery store					1 per 4
<b>Decomposers</b>						
Bread	Local grocery store		Panera is a good choice. Anything without lots of preservatives			4 (1 slice per petri dish)
Labels						4 (per 4 petri dishes)
Squirt bottle						1 (per 4 to mist the sample)
(Optional) Carbon Dioxide Probe						1 (per 4 dishes)
Coverslip						1 (per group of 4)
Dropper						1 (per group of 4)
Hand lens or microscope						1 (per group of 4)
(Optional) Small containers or chambers for probe						1-3 (per group of 4)
Sugar						1 tsp (per 4)
<b>Ecosystems</b>						
Dice	Amazon		<a href="http://www.amazon.com/Hundred-Sided-Gaming-Perfect-Games/dp/B000QDFQNW/ref=sr_1_1?ie=UTF8&amp;qid=1342551158&amp;sr=8-1&amp;keywords=dice">http://www.amazon.com/Hundred-Sided-Gaming-Perfect-Games/dp/B000QDFQNW/ref=sr_1_1?ie=UTF8&amp;qid=1342551158&amp;sr=8-1&amp;keywords=dice</a>	14.99		100 1 per student (within one class period)
Scotch removable tape	Office supply stores Amazon		<a href="http://www.officedepot.com">Office depot</a>	\$3.39	Scotch 224 Removable Tape, 3/4" x 650	
Scissors	Local grocery and supply stores			\$7.00 per		1 per student or per group
<b>Human Energy Systems</b>						
None						