



AP Biology

What do I need for my new AP Biology course?



Innovate Foundation

DonorsChoose.org is teaming up with the College Board and Innovate Foundation to offer funding for the classroom materials needed to maximize your AP Biology course. Using DonorsChoose.org, you can select the exact materials you need from our vendors.

When creating your project, you'll shop through our 24 vendors to find materials that will make your AP class a success. The suggestions below (and in the attached technology supply list) are based on recommendations from the College Board and previous requests by AP teachers on DonorsChoose.org. Please visit [our site](#) to view additional AP project ideas. Enter a keyword such as "AP Biology" or "lab" to search projects.

materials	vendor	price	#	total
Wisconsin Fast Plants Hairys Inheritance PlantKit	Carolina Biological Supply Company	\$83.12	1	\$83.12
Brassica rapa, Standard Seed, Pack of 200	Carolina Biological Supply Company	\$27.79	1	\$27.79
Cell Size and Diffusion Kit	Carolina Biological Supply Company	\$54.67	1	\$54.67
Sucrose, Reagent Grade, 500 g	Carolina Biological Supply Company	\$12.11	2	\$24.22
Albumin, Laboratory Grade, 100 g	Carolina Biological Supply Company	\$9.26	2	\$18.52
Sodium Chloride, Crystal, ACS Grade, 500 g	Carolina Biological Supply Company	\$6.17	1	\$6.17
Dextrose, Anhydrous, Powder, Reagent Grade, 500 g	Carolina Biological Supply Company	\$7.84	2	\$15.68
Disposable Syringes, 10 cc, Luer-Lok Tip, Pk of 15	Carolina Biological Supply Company	\$16.10	2	\$32.20
Nalgene(r) Griffin Beaker, Low Form, PMP, 1,000 mL	Carolina Biological Supply Company	\$17.76	2	\$35.52

sample project request

"This is the first year that my school offers AP Biology. We lack resources. My students are in desperate need of supplies needed to complete the 13 labs that are part of the curriculum. This grant will ensure that my students have access to the science materials necessary for a truly college-level AP Biology class."

- Mrs. Lopez, Los Angeles, California

Item Category	Item Name	Vendor	Average Price*
Textbook(s)	Audesirk, Gerald, Bruce E. Byers, and Teresa Audesirk. Biology: Life on Earth. Upper Saddle River, NJ: Prentice Hall.	AKJ Books	\$30.87
Textbook(s)	Hillis, David M., David Sadava, H. Craig Heller, and Mary V. Price. Principles of Life. Sinauer Associates, Inc.	AKJ Books	\$127.80
Textbook(s)	Mader, Sylvia S. Biology. Blacklick, OH: McGraw-Hill.	AKJ Books	\$232.20
Textbook(s)	Purves, William K., et al. Life: The Science of Biology. Cranbury, NJ: Sinauer Associates, Inc.	AKJ Books	\$27.00
Textbook(s)	Solomon, Eldra, Linda Berg, and Diana W. Martin. Biology. Independence, KY: Brooks/Cole Thomson Learning.	AKJ Books	\$276.26
Textbook(s)	Starr, Cecie, and Ralph Taggart. Biology: The Unity and Diversity of Life. Independence, KY: Brooks/Cole Thomson Learning.	AKJ Books	\$251.06
Textbook(s)	Simon, Eric, Jane Reece, Neil Campbell and Martha Taylor. Biology Concepts and Connections, 5th Edition.	AKJ Books	\$186.80
Textbook(s)	Starr, Cecie. Biology Concepts and Applications. 6th Edition. Cengage.	AKJ Books	\$246.56
Technology	Venier Probeware	Sargent Welch, Frey Scientific	\$220.09
Technology	Digital Cameras	Best Buy for Business , CDW-G, Quill.com, Frey Scientific	\$100.82
Technology	Light Box Systems	Carolina Biological Supply Company, Frey Scientific, Nasco, Frey Scientific	\$113.13
Technology	Computers with spreadsheet software like: MicrosoftR Excel, MacintoshR Numbers or OpenOffice Calc	Best Buy for Business , CDW-G, Quill.com, Frey Scientific	\$353.66
Technology	Computers with internet access	Best Buy for Business , CDW-G, Quill.com, Frey Scientific	\$353.66
Calculator	4 function with Square Root	CDW-G, Nasco, Quill.com, Frey Scientific	\$3.53
Lab: Chemicals	2% Agar containing the pH indicator dye phenolphthalein	Frey Scientific, Carolina Biological Supply Company, Frey Scientific	\$6.89
Lab: Chemicals	1% Phenolphthalein solution	Carolina Biological Supply Company, Frey Scientific, Sargent Welch	\$4.04

**prices may change over time*

Item Category	Item Name	Vendor	Average Price*
Lab: Chemicals	0.1M NaOH	Carolina Biological Supply Company, Frey Scientific, Sargent Welch	\$4.98
Lab: Chemicals	0.1M HCL	Carolina Biological Supply Company, Frey Scientific	\$4.86
Lab: Chemicals	Baking Soda (sodium bicarbonate)	Carolina Biological Supply Company, Frey Scientific, Nasco	\$4.01
Lab: Chemicals	15% Solution of KOH, potassium hydroxide solution (or NaOH, Drano)	Frey Scientific, Carolina Biological Supply Company	\$6.60
Lab: Chemicals	Ethanol	Carolina Biological Supply Company, Sargent Welch, Frey Scientific	\$6.75
Lab: Chemicals	Glacial acetic acid (17.4M)	Carolina Biological Supply Company, Frey Scientific, Sargent Welch	\$13.79
Lab: Chemicals	Hydrochloric acid	Carolina Biological Supply Company, Frey Scientific, Sargent Welch	\$5.04
Lab: Chemicals	Carbol-fuschin (Ziehl-Neelson) stain	Carolina Biological Supply Company, Frey Scientific, Sargent Welch	\$12.36
Lab: Chemicals	E. coli	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$9.32
Lab: Chemicals	Plasmid (pAMP), hydrated	Carolina Biological Supply Company, Frey Scientific	\$8.79
Lab: Chemicals	Ampicillin, lyophilized	Carolina Biological Supply Company, Sargent Welch, Frey Scientific	\$9.65
Lab: Chemicals	LB nutrient broth, sterile	Nasco, Frey Scientific, Carolina Biological Supply Company	\$8.79
Lab: Chemicals	10% Bleach solution	Carolina Biological Supply Company, Frey Scientific	\$6.30
Lab: Chemicals	Vials of Lamda DNA, vials of lambda DNA cut with EcoRI, and vials of lambda DNA cut with HindIII *Or samples of lamda DNA cut with other restriction enzymes	Carolina Biological Supply Company, Frey Scientific	\$27.79
Lab: Chemicals	Aragose	Carolina Biological Supply Company, Frey Scientific	\$32.36
Lab: Chemicals	Methylene blue gel and buffer stain	Frey Scientific, Sargent Welch, Carolina Biological Supply Company	\$11.19
Lab: Chemicals	TAE buffer 50x concentrate	Carolina Biological Supply Company, Frey Scientific	\$35.95
Lab: Chemicals	Ethanol	Carolina Biological Supply, Frey Scientific	\$21.45

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Item Category	Item Name	Vendor	Average Price*
Lab: Chemicals	Ammonia	Carolina Biological Supply, Frey Scientific, Sargent Welch	\$6.67
Lab: Chemicals	Guaiacol	Sargent Welch, Frey Scientific, Carolina Biological Supply Company	\$60.39
Lab: Consumables	Reused plastic soda or water bottles	Carolina Biological Supply Company	10.95
Lab: Consumables	Wicking: #18 nylon mason twine	Carolina Biological Supply Company, Nasco, Frey Scientific	\$4.23
Lab: Consumables	Fertilizer: Miracle-Gro Nursery Select, All Purpose Water-Soluble Plant Food or Peters Professional with micronutrients	Carolina Biological Supply Company, Frey Scientific	\$9.93
Lab: Consumables	Soil: Jiffy-Mix (soil mix, not potting soil)	Nasco, Frey Scientific, Carolina Biological Supply Company	\$21.55
Lab: Consumables	Vermiculite	Carolina Biological Supply, Frey Scientific, Sargent Welch	\$4.73
Lab: Consumables	Fast Plant Seeds	Carolina Biological Supply Company, Nasco, Frey Scientific	\$15.67
Lab: Consumables	Lab Notebooks	Nasco, Carolina Biological Supply Company, Frey Scientific	\$3.60
Lab: Consumables	Miniposters	Nasco, Quill.com, Frey Scientific	\$8.05
Lab: Consumables	Miniposter supplies (manila folders)	Quill.com, Frey Scientific	\$8.09
Lab: Consumables	Miniposter supplies (post-it sticky notes)	Quill.com, School Specialty, Frey Scientific	\$9.04
Lab: Consumables	Miniposter supplies (different colored permanent markers)	Nasco, Quill.com, Frey Scientific	\$4.55
Lab: Consumables	Liquid Soap (or dishwashing liquid)	Carolina Biological Supply Company, Nasco, Quill.com, Frey Scientific	\$4.00
Lab: Consumables	Clear plastic cups (wide-rimmed)	Carolina Biological Supply Company, Nasco, Frey Scientific	\$6.02
Lab: Consumables	Germinating/non-germinating Wisconsin Fast Plant seeds or seeds of several species of plants, including grasses; ; small glass beads; or dry, baked seeds	Carolina Biological Supply Company, Nasco, Frey Scientific	\$13.94
Lab: Consumables	small insects, such as crickets or earthworms	Nasco, Sargent Welch, Carolina Biological Supply Company, Frey Scientific	\$7.15
Lab: Consumables	Hot glue guns	Nasco, Quill.com, Frey Scientific	\$7.26
Lab: Consumables	Absorbent cotton	Nasco, Carolina Biological Supply Company	\$15.49

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Item Category	Item Name	Vendor	Average Price*
Lab: Consumables	Fiberfill	Nasco, Frey Scientific	\$4.95
Lab: Consumables	Self-stick squares or circles of Velcro	Quill.com, Nasco, Frey Scientific	\$2.42
Lab: Consumables	Needle and thread	Nasco, Frey Scientific	\$4.80
Lab: Consumables	Masking Tape	Nasco, Quill.com, Frey Scientific	\$2.37
Lab: Consumables	Permanent glass-marking pens	Nasco, Carolina Biological Supply Company, Frey Scientific	\$12.75
Lab: Consumables	Modeling Clay (several colors)	Carolina Biological Supply Company, Frey Scientific, Nasco, Quill.com, Frey Scientific	\$3.55
Lab: Consumables	Twist Ties	Carolina Biological Supply Company, Quill.com, Nasco, Frey Scientific	\$6.72
Lab: Consumables	Pink and blue pipe cleaners (Cut into pieces about 3 cm long. One set has 11 pieces of each color; one set per group. Six beads per set; two pipe cleaners fit through one bead)	Nasco, Quill.com, Frey Scientific	\$4.00
Lab: Consumables	Pop-it Beads	Frey Scientific, Nasco, Quill.com, Sargent Welch, Carolina Biological Supply Company	\$33.15
Lab: Consumables	Onion sets or scallions	Frey Scientific	\$65.95
Lab: Consumables	Jars with lids	Carolina Biological Supply Company, Frey Scientific, Nasco	\$20.46
Lab: Consumables	Sand	Carolina Biological Supply, Frey Scientific, Nasco, Sargent Welch	\$5.09
Lab: Consumables	Razor Blades	Carolina Biological Supply Company, Frey Scientific, Nasco	\$15.15
Lab: Consumables	Scientific cleaning wipes, such as Kimwipes	Carolina Biological Supply Company, Frey Scientific, Nasco	\$4.40
Lab: Consumables	Disposable Gloves	Carolina Biological Supply, Frey Scientific, Sargent Welch, Quill.com, Nasco	\$11.51
Lab: Consumables	Distilled Water	Carolina Biological Supply Company, Nasco, Frey Scientific	\$6.35
Lab: Consumables	Biohazardous waste disposal bags or plastic trash bags	Carolina Biological Supply, Frey Scientific	\$49.15
Lab: Consumables	Deionized Water	Carolina Biological Supply Company, Frey Scientific	\$14.72
Lab: Consumables	Aluminum Foil	Carolina Biological Supply Company, Nasco, Quill.com, Frey Scientific	\$15.76

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Item Category	Item Name	Vendor	Average Price*
Lab: Consumables	Disposable plastic needle-nose transfer pipettes	Frey Scientific, Nasco, Carolina Biological Supply Company	\$26.33
Lab: Consumables	Butterfly Eggs	Carolina Biological Supply Company, Nasco, Frey Scientific	\$13.25
Lab: Consumables	Parafilm laboratory sealing film	Carolina Biological Supply, Frey Scientific, Sargent Welch, Nasco	\$21.73
Lab: Consumables	Honey	Carolina Biological Supply Company, Frey Scientific	\$6.60
Lab: Consumables	Representative plant species such as Impatiens (a moisture-loving plant), Coleus, oleander (more drought tolerant), Phaseolus vulgaris (bean seedlings), pea plants, varieties of Lycopersicon (tomato), peppers, ferns, or even Wisconsin Fast Plants	Carolina Biological Supply, Frey Scientific, Sargent Welch	\$16.74
Lab: Consumables	Clear cellophane tape	Nasco, Quill.com, Frey Scientific	\$10.85
Lab: Consumables	Graph Paper	Carolina Biological Supply, Frey Scientific, Sargent Welch, Quill.com, Nasco	\$13.68
Lab: Consumables	Small potted plants with many green leaves	Frey Scientific, Carolina Biological Supply Company	\$26.82
Lab: Consumables	One-gallon size and small plastic food storage bags	Nasco, Frey Scientific	\$16.00
Lab: Consumables	String	Carolina Biological Supply Company, Nasco, Quill.com, Frey Scientific	\$2.71
Lab: Consumables	Salt	Nasco, Carolina Biological Supply Company, Frey Scientific	\$1.65
Lab: Consumables	Petroleum Jelly	Carolina Biological Supply Company, Frey Scientific, Nasco, Quill.com	\$3.40
Lab: Consumables	Fruit Fly Cultures	Carolina Biological Supply Company, Nasco, Sargent Welch, Frey Scientific	\$30.81
Lab: Consumables	Choice Chambers (Constructed from two matching plastic water bottles and caps taped together at their center) *Extra bottle caps	Carolina Biological Supply Company, Nasco, Frey Scientific	\$3.78
Lab: Consumables	Cotton Balls	Carolina Biological Supply Company, Nasco, Sargent Welch, Quill.com, Frey Scientific	\$3.23

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Item Category	Item Name	Vendor	Average Price*
Lab: Consumables	Various Condiments/Food Products such as: capers, mayonnaise, mustard, ketchup, salad dressing, jelly or jam, peanut butter, yeast; and/or fruits like bananas, melons, or apples	Quill.com, Frey Scientific	\$10.99
Lab: Consumables	Clear plastic packing tape	Nasco, Quill.com, Frey Scientific	\$6.35
Lab: Equipment	Microwave Oven	Quill.com, Sargent Welch, Nasco, Frey Scientific	\$203.29
Lab: Equipment	Fast Plant growth chambers (lights) and	Carolina Biological Supply Company, Nasco	\$117.13
Lab: Equipment	Incubator oven (Optional)	Carolina Biological Supply, Frey Scientific, Sargent Welch, Nasco	\$406.37
Lab: Equipment	Dissecting Microscopes	Carolina Biological Supply, Frey Scientific, Sargent Welch	\$168.41
Lab: Equipment	Gel Electrophoresis Chambers	Carolina Biological Supply Company, Frey Scientific, Nasco	\$44.41
Lab: Equipment	Power Supplies	Carolina Biological Supply, Frey Scientific, Sargent Welch, Quill.com, Nasco	\$100.64
Lab: Equipment	Staining Trays	Carolina Biological Supply Company, Sargent Welch	\$12.92
Lab: Equipment	Hot plates with stir bars	Carolina Biological Supply, Frey Scientific, Sargent Welch, Nasco	\$108.94
Lab: Equipment	Food dehydrators or drying ovens	Carolina Biological Supply, Frey Scientific, Sargent Welch	\$450.75
Lab: Equipment	Electronic balances (with 0.001gram Precision)	Frey Scientific, Sargent Welch, Nasco, Carolina Biological Supply Company	\$736.45
Lab: Equipment	Scissors	Carolina Biological Supply, Frey Scientific, Sargent Welch, Quill.com, Nasco	\$4.84
Lab: Equipment	Potometers (clear plastic tubing, a ring stand with clamp, and a 0.1mL or 1.0mL pipette)	Nasco, Carolina Biological Supply Company	\$94.73
Lab: Equipment	Fans	Carolina Biological Supply Company, Nasco, Quill.com	\$18.13
Lab: Equipment	Spray Bottles	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Quill.com	\$3.88
Lab: Benchware	Petri dishes	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$4.41
Lab: Benchware	Dissection Scissors	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$4.04

**prices may change over time*

Item Category	Item Name	Vendor	Average Price*
Lab: Benchware	Plastic syringes without needles (10mL or larger)	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$35.35
Lab: Benchware	Coplin Jars	Carolina Biological Supply Company	\$4.55
Lab: Benchware	Thin-stem plastic dropping pipettes	Carolina Biological Supply Company, Frey Scientific, Nasco	\$35.89
Lab: Benchware	Plastic capillary tubes or plastic microhematocrits (μL)	Frey Scientific, Carolina Biological Supply Company	\$8.08
Lab: Benchware	Small plastic petri dishes	Carolina Biological Supply Company, Frey Scientific, Nasco	\$4.95
Lab: Benchware	Slides and cover slips	Nasco, Carolina Biological Supply Company, Frey Scientific	\$4.50
Lab: Benchware	Forceps	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$1.74
Lab: Benchware	Sterile Pipettes	Frey Scientific, Sargent Welch, Nasco, Carolina Biological Supply Company	\$32.79
Lab: Benchware	Sterile Inoculation loops (10 μL)	Carolina Biological Supply Company, Frey Scientific, Nasco	\$3.46
Lab: Benchware	OPTIONAL: Micropipettes, adjustable volume, 2–20 μL (and pipette tips)	Frey Scientific, Sargent Welch, Carolina Biological Supply Company	\$168.82
Lab: Benchware	Test tubes (various sizes)	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$17.13
Lab: Benchware	Test tubes racks/holders	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$9.17
Lab: Benchware	Multicolor 2.0 mL microcentrifuge tubes and microcentrifuge tube holders	Carolina Biological Supply Company	\$76.90
Lab: Benchware	1L Flasks	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$44.16
Lab: Benchware	500 mL Graduated Cylinders	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$12.72
Lab: Benchware	Plastic bulb transfer pipettes	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$18.30
Lab: Benchware	1L Graduated Cylinders	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$17.22

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Item Category	Item Name	Vendor	Average Price*
Lab: Benchware	8-10 L Containers	Carolina Biological Supply Company	\$36.95
Lab: Benchware	Syringes (without needles), different sizes	Carolina Biological Supply Company, Frey Scientific, Sargent Welch	\$35.35
Lab: Benchware	Small Clamps	Carolina Biological Supply Company, Frey Scientific, Sargent Welch	\$5.19
Lab: Benchware	Droppers	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$5.95
Lab: Benchware	1 mL volumetric pipettes	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$32.79
Lab: Benchware	5 mL graduated/volumetric pipettes	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$12.04
Lab: Benchware	10 mL graduated/volumetric pipettes	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$40.21
Lab: Benchware	25 mL volumetric pipettes	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$57.33
Lab: Benchware	Pipette pumps or pipette bulbs	Carolina Biological Supply Company, Frey Scientific, Sargent Welch, Nasco	\$16.36

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Tech Supplies for any AP Course

The following materials are suggestions based on projects posted by DonorsChoose.org teachers for their AP courses. We encourage you to search our vendor sites to find the materials that will work best for your students.



	Best Buy for Business	CDW-G	Kaplan	Quill.com	Teachers' School Supply	Woodwind & Brasswind
Apple Products (iPods, iPads, computers)	X					X
Cameras, Camcorders	X	X	X	X	X	
Document Cameras	X	X	X	X	X	
eReaders (eg. Kindle, NOOK)	X	X		X		
Flash Drives	X	X	X	X		X
Interactive Whiteboards		X	X		X	
Laptops, Desktops, Tablets	X	X	X	X		
Printers, Scanners, Copiers	X	X	X	X		
Projectors	X	X	X	X	X	
SMART Technology Products			X			
Student Response/Voting Systems		X	X	X		
Televisions, DVD Players	X	X		X		