

LABORATORY MATERIALS LIST

- ❖ The following items will provide your students with the ability to perform most of the experiments and observations for biology. Purchase supplies locally whenever possible. Many materials can be used in successive years.
- ❖ Laboratory equipment is a must. If your school is small or you are a HomeSat customer, you may want to pick and choose if you're not able to acquire all of the materials listed below. The preserved slides and dissection kits are very reasonable.
- ❖ Your biggest expense will be the microscopes. We suggest you buy quality scopes rather than "toy" versions or "cheap" models. Often you can find used microscopes at hospitals and public schools. You can also find microscopes very reasonably at any scientific supply company.
- ❖ Items that will be needed first semester need to be ordered as soon as possible. Our first lab requiring ordered materials will be in Chapter 3. That lab will come within the first three weeks of school.

Description	BJUP order #	Qty. per group of 2-4 students
¹ Compound microscope (should have 10x and 40x objectives and 10x eyepiece)	033704	1
Prepared microscope slides:		
¹ <i>Paramecium</i> fission	041590	1
¹ <i>Spirogyra</i>	039636	1
¹ <i>Protococcus</i>	039628	1
¹ desmids	039578	1
¹ diatoms	039586	1
¹ leaf c.s.	041400	1
¹ <i>Amoeba proteus</i>	041566	1
¹ <i>Euglena</i>	041574	1
¹ <i>Volvox</i>	043109	1
¹ <i>Allium</i> root tip	041327	1
¹ <i>Rhizopus</i>	040717	1
¹ <i>Penicillium</i>	040709	1
¹ <i>Coprinus</i> c.s.	040691	1
¹ lichen	041517	1
¹ <i>Ranunculus</i> stem c.s.	041418	1

¹ Zea root c.s.	076133	1
² Grantia c.s.	041335	1
² Grantia l.s.	041343	1
² Hydra	076125	1
² budding hydra	041368	1
² human skin c.s.	041822	1
² striated muscle	041236	1
² smooth muscle	041244	1
² human blood	039982	1
¹ Beakers	039925	2
² Dissection kit	033027	1

(Kit includes dissection tools, magnifying glass, dissection pan, activity book, storage bags, dissection pins, and one each of crayfish, earthworm, frog, and perch. You may order specimen replacements separately if you already have the pan and other tools.)

Each class also needs one of the following:

¹ Box microscope slides	041855
¹ Box coverslips	040139
¹ Lens paper	040964
¹ Methyleneblue-Stain	037887

¹These items are needed for first semester.

²These items are needed for second semester.

Other items that will be needed for laboratory exercises can be obtained locally. This would include items such as fresh flowers, seeds, onions, water, toothpicks, sugar, cotton swabs, jars, and so forth.

Note: *We have not included living items because of the difficulty of maintaining them. If your school has the facilities to work with living cultures, call us for a more thorough list of supplies.*

Recommendation: Each site should have at least one field trip. Possible destinations include a zoo or aquarium; a state or national park, forest, or seashore; a hospital; a fish hatchery; a blood bank; an optometrist's office; a specialty aquarium shop; a botanical garden; an abandoned field; a stream, river, lake, or pond. Worksheets should be prepared in advance to make such trips educationally worthwhile. All details of such trips will have to be worked out by the individual site.

Suggestion: To increase the interest of the students, equip your biology room with plants, an aquarium, or any other interesting objects that the students can care for, watch, or examine. Of course, each school will determine its setup based on the amount of room and material it has available.

A BJUP Science Lab Materials Order Form is available at the back of the Program Guide. It can take up to **six weeks** to receive laboratory equipment, so order as soon as possible. Prices are subject to change without notice.