

KIT CONTENTS LIST FOR USE WITH: **Alpha Omega Publications**

**LIFEPAC®**

**Grade 10 Science**

*Home Science Tools is not affiliated with the above curriculum publisher.*

<u>Text Reference</u>	<u>Item Description</u>	<u>Item Quantity</u>	<u>Notes</u>
	Home LED Microscope (MI-4100LST)	0	Purchase separately. We recommend this microscope as the best choice for most home schools. It will provide excellent service through high school. See our catalog or website for other microscope options.
	Lens Cleaner, 60 ml (MI-LENSCLN)	0	Purchase separately. Recommended for extensive microscope use.
	Lens Cleaning Paper, 50 pack (MI-PAPER)	0	Purchase separately. Recommended for extensive microscope use.
1,2	Test Tubes, extra large, 20 x 150 mm (CE-TTUBEXL)	2	Can also be used in place of 4 jars in 1002.
1,2,6	Scissors, Dissecting (DE-SCISSOR)	1	
1,2,6,8	Probe & Seeker (DE-PROBE)	1	
1,3,4,5,8	Razor Blade, single edge, 1 pack (CE-RAZOR)	1	
1,3,4,8	Forceps, stainless steel (DE-FORCEP)	1	
1,3,5,8	Magnifier, tripod, 10X (OP-TRIPMAG)	1	Use this item in place of a magnifying glass for these labs.
1,3,5,8	Magnifying Glass, 2", 3X Lens (OP-MAGNIFY)	0	Use the 10X Magnifier in place of the magnifying glass.
1,8	Teasing Needle, straight (DE-NEEDSTR)	1	
2	Alcohol Lamp Burner, Wickless (CE-LAMP)	0	Optional to purchase separately. A stove burner and small pan can be used to complete the activity.
2	Alcohol Lamp Stand (CE-STAND1)	0	Optional to purchase separately. Order only if you are buying an alcohol lamp, but won't be buying a ring stand for this course.
2	Alligator Clip Leads, 2 pack (EL-ALCLIP2)	1	
2	Balloon Set of 9 (GS-BALLOON)	0	
2	Battery, 6 volt (EL-BATT6)	1	Use instead of three expensive 1-1/2 volt dry cells.
2	Biuret Reagent, 30 ml (UN-BIURET)	1	Use instead of the copper sulfate solution. Put 20 drops of the food material to a test tube, add 2 drops Biuret indicator. A slight purple color indicates protein.
2	Calcium Hydroxide, 30 g (CH-CA(OH)2)	1	Use instead of lime tablets.
2	Chalk (calcium carbonate) (CH-CHALK)	1	
2	Cheesecloth, bleached (GS-CHCLOTH)	0	
2	Chemical Splash Safety Goggles, Adult (CE-GOGGLE1)	1	Always wear when using chemicals. Order extras if needed.
2	Electrolysis Electrodes (EL-ELECTRO)	1	
2	Ethyl Alcohol, 95%, 30 ml (UN-ETHYALC)	0	Optional to purchase separately or purchase from your local hardware store.

<u>Text Reference</u>	<u>Item Description</u>	<u>Item Quantity</u>	<u>Notes</u>
2	Filter Paper, 11 cm, 10 pack (CE-FILTPAP)	1	
2	Friction pad, silk, 6x6" (GS-PADSILK)	1	Optional to purchase separately if you don't have a piece of nylon material.
2	Friction pad, wool, 6x6" (GS-PADWOOL)	0	Use any piece of wool clothing to complete the activity.
2	Funnel, plastic, 65 mm dia. (CE-FUNNEL)	1	
2	Glucose Test Strips, 50 pack (BE-GLUT50)	1	Use in place of Dextrostik or Tes Tape.
2	Graduated Cylinder, polypropylene, 10 ml (CE-CYPP10)	1	
2	Hydrochloric Acid, 12M, 30 ml (UN1789)	1	
2	Lab Apron No 3, plastic, 2 mil (CE-APRON3)	1	Always wear when using chemicals. Order extras if needed.
2	Litmus Paper, blue, 100 strips (CH-LITBLUE)	1	
2	Litmus Paper, red, 100 strips (CH-LITRED)	1	
2	Phenolphthalein Solution, 30 ml (UN-PHENOLS)	1	
2	Safety Gloves, size 8 - 8.5 Medium (CE-SGLOVEM)	1	Always wear chemically resistant gloves when using chemicals. Order CE-SGLOVES for size 6, CE-SGLOVEM for size 8, CE-SGLOVEL for size 9, all the same price.
2	Sodium Sulfate, 30 g (CH-NA2SO4)	1	
2	Starch, water soluble, 30 g (CH-STARCH)	0	Use any starch purchased from local grocery store to complete activity.
2	Stirring Rod, glass, 6" (CE-STIRROD)	1	
2	Test Tube Rack, 6 holes (CE-TTRACK1)	1	
2	Test Tubes, small 13 x 100 mm (CE-TTUBESM)	1	
2	Thermometer, Celsius, 12" (ME-THER30B)	1	
2,3	Yeast, packet (LM-YEAST)	3	Any yeast will work.
2,3,4	Beaker, glass, 250 ml (CE-BE10250)	1	Do experiments in series to get by with just one beaker. Use for liter measure in 1002.
2,3,4,7,8	Pipet (medicine dropper) (CE-DROPPER)	2	
2,3,4,8	Methylene Blue, 1%, 30 ml (CH-METHBLU)	1	
2,3,4,8	Pipet, disposable, 1 ml (CE-PIPET-S)	1	Use for stains
2,4	Cups & lids, 8 oz. plastic, 3 pack (GS-CUPLID)	1	Use 2 cups instead of buying extra beakers. Use one cup and lid to hold the osimeter thistle tube upright. (Eliminates the need for a ring stand and clamp.) Order 3 packages total if you will also use these instead of 6 quart jars.
2,4	Iodine (Lugol's) Biological Stain Solution, 30 ml (CH-IODINE)	1	
2,4	Ring Support, 4" (CE-RING4)	0	Optional to purchase separately. Purchase with ring stand.
2,4	Support Stand, 4" x 6" base, 18" rod (CE-STAND2)	0	Optional to purchase separately. Not needed. Activities can be completed with a stove burner and plastic cups with lids.
2,4,5,7	Sand, coarse, 1 lb (GS-SANDCRS)	2	
2,9	String, heavy cord, 25' (MC-STRING)	0	Use any string or yarn to complete activities.
3	Fish Net, 4" (BE-FISHNET)	0	Optional to purchase separately. Useful to collect algae.

<u>Text Reference</u>	<u>Item Description</u>	<u>Item Quantity</u>	<u>Notes</u>
3	Methyl Cellulose, 1.5%, 30 ml (CH-METHCEL)	0	Optional to purchase separately. Use instead of cotton ball to quiet protozoa.
3	Protozoa Culture Kit (LM-PROTIST)	1	Small plastic vial with hay and dirt. Carefully split into 4 jars after 4-5 days.
3,4,6,8	Alpha Omega Biology Slide Set (MS-SET1000)	1	Contains the 12 prepared microscope slides needed to this course.
3,4,6,8	Microscope Slide Set, Basic (MS-SLIDSET)	1	
3,8	Spirogyra (green algae) slide, w.m. (MS-SPIROC)	1	Included in prepared slide set.
4	Burette Clamp (CE-CLAMP)	1	Optional to purchase separately. Only needed if you purchase a ring stand.
4	Neuron slide, motor, smear (MS-NEURON)	1	Included in prepared slide set.
4	Osmosis Set (BE-OSIMET)	1	
4	Pebbles, fine gravel, 1 lb. (GS-PEBBLE)	0	Use pebbles in terrarium in place of marbles.
4	Potassium Permanganate, 30 g (UN1490)	1	
4,6,8	Muscle slide, 3 types, section (MS-MUSC3)	1	Included in prepared slide set.
4,8	Human blood slide, Wright's stain, smear (MS-HUBLOOD)	1	Includes erythrocyte (red blood cells) and leukocytes (white blood cells). Included in prepared slide set.
4,8	Screen, 20 mesh, steel, 4x4" (GS-SCREEN)	1	
5	Seeds, baby lima bean, pack (LM-SEEDBEA)	1	
5	Seeds, grass, pack (LM-SEEDGRA)	1	
5	Seeds, marigold, pack (LM-SEEDMAR)	1	
5	Styrofoam Cups, 8 oz, with lids 5 pack (CE-CUPSTYR)	0	
5,7	Peat Moss (GS-PEATMOS)	0	Use any potting soil to complete activities.
5,7	Seeds, radish, pack (LM-SEEDVEG)	1	
5,8	Terrarium (BE-TERRAR)	0	Optional to purchase separately. Order for a larger, more useful terrarium.
5,8,9	Jar, 1 gallon, clear plastic (BE-JAR1GAL)	0	Any 1 gal jar or large jar will work to complete activities.
6	Human bone slide, ground, c.s. (MS-HUBONE)	1	Included in prepared slide set.
7	P.T.C. Test Paper, 100/vial (CH-PTCTEST)	1	
7	Petri Dishes, polystyrene, 90 x 15 mm, 2 pack (BE-PETRI1)	1	
8	Allium (onion) root tip slide, l.s. (MS-ALLROOT)	1	Included in prepared slide set.
8	Ascaris (Roundworm) mitosis slide (MS-ASCARIS)	1	Use instead of fish blastodisc. Included in prepared slide set.
8	Diatoms slide, mixed, w.m. (MS-DIATMIX)	1	Included in prepared slide set.
8	Frog ovary slide, c.s. (MS-FROVARY)	1	Included in prepared slide set.
8	Frog sperm slide, smear (MS-FRSPERM)	1	Included in prepared slide set.
8	Kidney slide, section (MS-KIDNEY)	1	Included in prepared slide set.
8	Planaria (brown) - Live Culture (LD-PLANAR)	0	Optional to purchase this live culture separately. It will be drop shipped from our supplier.

<u>Text Reference</u>	<u>Item Description</u>	<u>Item Quantity</u>	<u>Notes</u>
9	Nail assortment, 30 pieces (GS-NAILS)	0	Wooden stakes will work better if you have them.
9	Tape Measure, Steel, 3 meters (ME-TAPEMEA)	1	Optional to purchase separately.

1. The products in this kit are intended for parent/teacher use to complete curriculum lab activities with students.
2. Some items are not designed for or intended primarily for children ages 12 and under.
3. Some materials and many chemicals we provide are dangerous and may be harmful if misused. With your purchase, you are assuming all responsibility for any injuries or damages resulting from the storage, use, and disposal of all materials and chemicals.
4. Some products may differ from the web image (such as clay, food coloring, etc.)
5. Some items readily available at grocery stores or not offered by Home Science Tools are not included.
6. We guarantee that you will be happy with every purchase from HST. All products are covered by our 90-day money-back guarantee.

**Home Science Tools**  
**665 Carbon Street • Billings, MT 59102**  
**Phone: 406-256-0990 • Fax: 406-256-0991**  
**[www.homesciencetools.com](http://www.homesciencetools.com)**