

Orders: (888)-393-5663
 Inquiries: 317-745-0443
 Fax: 317-745-0249
 mail@workshopplus.com



www.workshopplus.com
 P.O. Box 425
 3055 East Main Street
 Danville, IN 46122

45300 – Laboratory Equipment Set For D.I.V.E. Biology (Grade 10)

Item	Quantity	Item Number
Beaker, glass, 150ml	6	45307
Blood Typing Kit (Human ABO)	1	50745
Choice Chamber, 3 chamber	1	45301
Clear Plastic Cups, 16oz	6	40524
Color Bead Pack	1	40642
Concave Slide Set	1	40036
Cork	1	40250
Cotton Ball, 5pk	1	40436-5
Cotton Swab, 5pk	1	40335-5
Dialysis Tubing, 20mm, 5ft	1	45303-5
Digital Scale	1	45020
Dissecting Pan & Flex Pad	1	50517
Dry Pea Seeds	50	45304
Economy Magnifiers	2	64008
Eyedropper, 3in	3	50418
Filter Paper, 10pk	1	50712
Gloves, 10 pair pack	1	40348-10
Glucose Test Strip, 10pk	1	46112-10
Glucose, 15%, 100ml	1	45313
Graduated Cylinder, glass, 100ml	1	50644
Graduated Cylinder, glass, 10ml	1	50641
Graduated Glass Pipette, 2ml	3	45308
High School Dissecting Tool Kit	1	50519
Human Anatomy Torso	1	45305
Index Card, 50pk	1	40341-50
Iodine Tincture	1	45336
Lung Volume Bag kit	1	45306
Methyl Cellulose, 1.5%, 10ml	1	45314
Methylene Blue	1	50700
Penlight	1	46184
Plastic Pipette, 1ml	1	46915
Potassium Hydroxide Solution (KOH), 15%, 10ml	1	45315
Preserved Crayfish	1	50503
Preserved Earthworm	1	50500
Preserved Fetal Pig	1	50506
Preserved Fish (Perch)	1	50502
Preserved Grass Frog	1	50501

DIVE: Biology Slide Set (45320)	Preserved Slide Allium (Onion) Root Tip, I.s.	1	50683
	Preserved Slide Colored Threads, crossed, w.m.	1	45321
	Preserved Slide Coprinus (Mushroom), cross-section, c.s.	1	45322
	Preserved Slide Desmids, green algae, w.m.	1	45323
	Preserved Slide Grantia Spicules, w.m.	1	50694
	Preserved Slide Grantia, I.s.	1	45324
	Preserved Slide human blood	1	45325
	Preserved Slide human skin c.s.	1	50758
	Preserved Slide Hydra, budding, w.m.	1	50689
	Preserved Slide Hydra, plain, w.m.	1	45326
	Preserved Slide Lichen, cross-section	1	45327
	Preserved Slide Marine Diatoms, yellow-green algae, w.m.	1	50697
	Preserved Slide Penicillium (blue mold), w.m.	1	45328
	Preserved Slide Protozoa mix, w.m.	1	45329
	Preserved Slide Ranunculus (<i>buttercup</i>) root	1	50693
	Preserved Slide Ranunculus (<i>buttercup</i>) stem	1	50692
	Preserved slide Staphylococci (Cocci)	1	45331
	Preserved slide Bacillus (Rod)	1	45332
	Preserved slide Spirillum (Spiral)	1	45333
	Preserved Slide Rhizopus (Bread Mold), w.m.	1	45330
PTC Paper, 10pk	1	45309	
Rayon Ball	3	45311	
Reflex Hammer	1	45310	
Rubber Stopper, #2 1 hole	3	50621	
Ruler, wooden, 12in	1	40333	
Safety Goggles	1	50681	
Silicon Sealant	1	45207	
Slides and Coverslips, Set of 10	1	50701	
Starch Solution, 1%, 100ml	1	45316	
Stir Rod, glass	1	50711	
Stopwatch	1	40533	
Thermometer, dual-scale	1	50631	
Vials, glass, 25x100mm	3	45318	

Please check your order for any shortages and/or damaged items upon receipt.
Please contact *Nature's Workshop Plus!, Inc.* for any needed replacement, and/or additional items.
Please observe all safety precautions when doing experiments.
Please note that exact quantities may vary slightly, and some items may not be included due to limited availability or seasonal shortages.

Orders: (888)-393-5663
 Inquiries: 317-745-0443
 Fax: 317-745-0249
 mail@workshopplus.com



www.workshopplus.com
 P.O. Box 425
 3055 East Main Street
 Danville, IN 46122

45300 – Laboratory Equipment Guide For D.I.V.E. Biology (Grade 10)

Lab 1: Introduction to Biology Laboratory

In Your Kit:	You Provide:
Preserved Slide Desmids Preserved Slide Crossed Threads Economy Magnifiers (Hand Magnifying Lens)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!)

Lab 2: The Scientific Method

In Your Kit:	You Provide:
None	Computer with Microsoft Excel

Lab 3: Diffusion and Osmosis

In Your Kit:	You Provide:
Dialysis Tubing Iodine Solution (Iodine Tincture) (Save for Lab 5) Starch Solution, 1% Glucose, 15% Beakers, glass, 150ml Ruler Stir Rod Glucose Test Strip Eyedropper Graduated Cylinder, 100ml Stopwatch Plastic Cups Graduated Cylinder, 10ml Digital Scale (Balance)	Distilled Water Sucrose (Table Sugar) Microsoft Excel

Lab 4: Enzyme Catalysis

In Your Kit:	*You Provide:
Pipets, 1 ml Graduated Cylinder, 100ml Stopwatch Stir Rod, glass Safety Goggles Graduated Cylinder, 10ml	Beaker, glass, 250ml Beakers, glass, 400ml Erlenmeyer Flask, 50ml Buret, 50ml and Buret Clamp Ring Stand Potato Test Tube Holder Test Tube Distilled Water for Ice Permanent Marker 3% Hydrogen Peroxide 2% KMnO ₄ 1.0 Sulfuric Acid Catalase concentrate

Lab 5: Cytology

In Your Kit:	You Provide:
Slides and Coverslips Set Concave Slide Set Eyedropper (In Dissecting Tool Kit) Methylene Blue Iodine Solution (Iodine Tincture) (From Lab 3) Cotton Swabs Scalpel (In Dissecting Tool Kit) Forceps (Tweezers) (In Dissecting Tool Kit) Pointed Probe (In Dissecting Tool Kit) Cork 100ml Beaker (use 150ml Beaker)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!) Onion Banana Anacharis (<i>Available at local pet store with aquarium supplies</i>) Water

Lab 6: Plant Pigments and Photosynthesis

In Your Kit:	*You Provide:
Ruler Safety Goggles Pipet, 1ml Graduated Cylinder, 100ml Stopwatch Digital Scale (Balance) Graduated Cylinder, 10ml	Chromatography Paper Capillary Pipet Chromatography Vial or Test Tube Mixed Leaf Pigment Extract Chromatography Solvent Pencil Scissors Spectrophotometer Cuvettes Aluminum Foil Beaker, glass, 500ml Beaker, glass, 1ml pH 6.5 Phosphate Buffer solution Sunlight 0.5 M Sucrose solution 0.072 g DPIP dissolved in 1 L Distilled Water

Lab 7: Mitosis and Meiosis

In Your Kit:	*You Provide:
Preserved Slide Allium (Onion) Root Tip Slides and Coverslips Scalpel (In Dissecting Tool Kit) Pointed Probe (In Dissecting Tool Kit) Eyedropper (In Dissecting Tool Kit)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!) 60ml Sardoria Crossin Medium 60ml Sardoria Culture Medium Petri Plates MicroLive cultures or Sardoria wild-type and Sardoria mutant (tan strain) Bunsen Burner Permanent Marker Isopropyl Alcohol Preserved Slide Whitefish Blastula Distilled Water

Lab 8: Genetics of Organisms

In Your Kit:	*You Provide:
None	Calculator

Lab 9: Genetic Engineering

In Your Kit:	*You Provide:
Safety Goggles Graduated Cylinder, 100ml Beaker, glass, 100ml (use 150ml Beakers)	E. Coli Culture Sterile 1ml micropipets Sterile 2ml microfuge tubes Sterile petri plates Luria broth Agar (275ml) Luria broth 10-100 uL pipet with tips Sterile inoculating loops Sterile spreading rods Permanent Marker Ampicillin (0.02g dry powder) 0.005 ug/uL pUC18 solution 0.05 M Calcium Chloride solution Distilled Water Ice Beaker, glass, 250ml Electrophoresis Chamber with gel casting tray and power supply Erlenmeyer Flask, 250ml Masking Tape 10 uL pipet with tips Microwave Agarose TBE Electrophoresis Buffer concentrate 10X DNA Strain Concentrate 10X EcoRI digested lambda DNA Hind III digested lambda DNA Uncut Lambda DNA

Lab 10: Population Genetics and Evolution

In Your Kit:	You Provide:
PTC Paper Index Cards (To make your own Allele Cards)	Calculator

Lab 11: Animal Behavior

In Your Kit:	You Provide:
Choice Chamber Filter Paper	Sowbugs Water

Lab 12: Bacterial Growth and Antibiotics

In Your Kit:	*You Provide:
Preserved Slide Rod, Spiral, and Cocci Bacteria Stir Rod, glass	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!) Live Culture of Bacillus cereus Petri Plate Nutrient Agar Nutrient Broth Solution Inoculating Loop Bunsen Burner Sensi-Disc antibiotic tabs for Erythromycin, Streptomycin, Penicillin, and Tetracycline

Lab 13: Kingdom Protista

In Your Kit:	You Provide:
Concave Slides (From Lab 5) Coverslips (From Lab 5) Eyedropper (In Dissecting Tool Kit) Methyl Cellulose Preserved Slide Mixed Protozoans Preserved Slide Marine Diatoms	Distilled Water Pond Water Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!)

Lab 14: Fungi and Lichens

In Your Kit:	You Provide:
Preserved Slide Rhizopus Preserved Slide Penicillium Preserved Slide Coprinus, cross-section Preserved Slide Lichen, cross-section	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!) Photographs of Lichen Species

Lab 15: Plant Cell Respiration

In Your Kit:	You Provide:
Glass Vials Rubber Stoppers Graduated Glass Pipettes, 2ml 100ml Graduated Cylinder Dry Pea Seeds Plastic Beads Cotton Balls Rayon Balls Potassium Hydroxide Solution (KOH) Silicon Sealant Stir Rod Thermometer Safety Goggles	Duct Tape Ice Water Paper Towels Permanent Marker

Lab 16: Transpiration

In Your Kit:	*You Provide:
Ruler Stopwatch Silicon Sealant Eyedropper (In Dissecting Tool Kit) Slides and Coverslips Preserved Slide Ranunculus (<i>buttercup</i>) stem and root Dissection Scissors (In Dissecting Tool Kit) Tweezers (In Dissecting Tool Kit) Digital Scale (Balance)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!) Weighing Dishes Bean Seeds Plastic Tubing Graduated Pipet, 1 ml Ring Stand Test Tube Clamps Tape Heat Lamp Fan Plastic Bag Spinach Permanent Marker Microsoft Excel Water

Lab 17: Phylum, Porifera, and Cnidaria

In Your Kit:	You Provide:
Preserved Slide Grantia (c.s. and l.s.) Preserved Slide Grantia Spicules Preserved Slide Hydra Preserved Slide Hydra Budding Concave Slides (From Lab 5) Cover Slips (From Lab 5) Eyedropper (From Lab 5)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!) Water Photographs of various sponges and cnidarians

Lab 18: Flatworms & Earthworm Dissection

In Your Kit:	You Provide:
Preserved Earthworm Dissection Tool Kit Dissection Pan & Flex Pad Gloves Economy Magnifier (Magnifying Lens)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!)

Lab 19: Crayfish Dissection

In Your Kit:	You Provide:
Preserved Crayfish Dissection Tool Kit (From Lab 18) Dissection Pan & Flex Pad (From Lab 18) Gloves Economy Magnifier (Magnifying Lens)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!)

Lab 20: Frog Dissection

In Your Kit:	You Provide:
Preserved Grass Frog Dissection Tool Kit (From Lab 18) Dissection Pan & Flex Pad (From Lab 18) Gloves Economy Magnifier (Magnifying Lens)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!)

Lab 21: Fish Dissection

In Your Kit:	You Provide:
Preserved Fish (Perch) Dissection Tool Kit (From Lab 18) Dissection Pan & Flex Pad (From Lab 18) Gloves Economy Magnifier (Magnifying Lens)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!)

Lab 22: Pig Dissection

In Your Kit:	You Provide:
Preserved Fetal Pig Dissection Tool Kit (From Lab 18) Dissection Pan & Flex Pad (From Lab 18) Gloves Economy Magnifier (Magnifying Lens)	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!)

Lab 23: Dissolved Oxygen, Primary Productivity, and Hypoxia

In Your Kit:	*You Provide:
Thermometer Stopwatch	Aquatic Ecosystem YSI-55 Dissolved Oxygen Meter Glass Jars Mesh Window Screen Aluminum Foil Duct Tape Permanent Marker Calculator

Lab 24: Human Support Systems

In Your Kit:	You Provide:
Preserved Slide human skin c.s.	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!) Muscle Reference Chart Preserved Slide human muscle (voluntary, involuntary, and cardiac) Preserved Slide human bone

Lab 25: Human Respiratory and Digestive Systems

In Your Kit:	You Provide:
Lung Volume Bag Human Anatomy Torso	Respiratory and Digestive system reference chart

Lab 26: Human Circulatory System

In Your Kit:	*You Provide:
Preserved Slide human blood Human ABO blood Typing Kit Eyedropper Concave slides Coverslips Thermometer	Microscope (If you need to purchase a microscope, please contact Nature's Workshop, Plus!) Hemoglobin Test Paper Sphygmomanometer <i>Daphnia pulex</i> Microsoft Excel

Lab 27: Human Nervous System and the 5 Senses

In Your Kit:	You Provide:
Reflex Hammer (Rubber Mallet) Penlight (Flashlight)	Banana Color Vision Test

Lab 28: Fish Embryology

In Your Kit:	You Provide:
<i>none</i>	<i>none – watch videos</i>

*Lab Activities 4, 6, 7, 8, 9, 12, 16, 23 and 26 contain equipment and/or live materials that we do not normally handle. We recommend completing the video lab for these activities. If you have any questions regarding these items please contact us by e-mail: mail@workshopplus.com.

Please check your order for any shortages and/or damaged items upon receipt.
Please contact *Nature's Workshop Plus!, Inc.* for any needed replacement, and/or additional items.

Please observe all safety precautions when doing experiments.

Please note that exact quantities may vary slightly, and some items may not be included due to limited availability or seasonal shortages.