

**Orders: (888)-393-5663**

Inquiries: 317-745-0443

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**www.workshopplus.com**

P.O. Box 425

3055 East Main Street

Danville, IN 46122

**46100 – Laboratory Equipment Set  
For Alpha-Omega Grade 7**

<b>Item</b>	<b>Quantity</b>	<b>Item Number</b>
12" Ruler	1	40333
3" Nail	1	40826
Blindfold	1	40442
Chalk	1	40284-1
Convex Lens, Focal Length #1	1	40254-1
Convex Lens, Focal Length #2	1	40254-2
Drawing Compass	1	46102
Drinking Straw	1	40288-1g
Flat Mirror, small	1	40740
Forceps (Tweezers)	1	50416
Glass Slides & Cover Slips (Set of 10ea)	1	50701
Graduated Cylinder, 100 mL (plastic)	1	50634
Iodine Solution	1	50699
Limestone Rock	1	40728
Mirror Concave 50mm Dia.	1	46103
Modeling Clay	1	40555-2
Nail, 4 cm	1	46108-4
Nail, 5 cm	1	46108-5
Paper Fasteners (Brads) (2pk)	1	46107
Pen Light	1	46184
Pipet 3" Dropper	1	50418
Protractor	1	40833
Push Pins	2	46109
Red food coloring	1	40263-red
Small Metal Washer	1	40926
Small Serving Cups, paper	2	40529
Stopwatch	1	40533
Styrofoam Ball	1	40231
Tea Light Candle	1	40738
Thermometers (plastic back)	2	40350
Thin Rubber Band	5	40245
Thread	1	40223
Toothpicks (10pk)	1	40549-10
Umbrella	1	40283
Waxed Paper, 1 ft. square	1	40445
Wood Block -- 13 cm x 8 cm x 1.5 cm	1	46104
Wood Block -- 20 cm x 20 cm x 3 cm	1	46105
Wood Block -- 20 cm x 3cm x 3cm	1	46106

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**46100 – Laboratory Equipment Guide  
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**UNIT 1**

**Page 5: Observe a Tree**

<b>In Your Kit:</b>	<b>You Provide:</b>
None	Tree

**Page 9: Classify Objects**

<b>In Your Kit:</b>	<b>You Provide:</b>
None	Variety of objects in a box

**UNIT 2**

**Page 14: Determine Volume**

<b>In Your Kit:</b>	<b>You Provide:</b>
Graduated cylinder, plastic, 100 mL Limestone Rock	Overflow can (a watering can with a spout) Water

**Page 17: Compare Mass**

<b>In Your Kit:</b>	<b>You Provide:</b>
Ruler Nail Rubber Band 2 Small Serving Cups Modeling Clay	None

**UNIT 3**

**Page 7: Constellation Wheel**

<b>In Your Kit:</b>	<b>You Provide:</b>
Paper fastener (Brad)	Cardboard

**Page 15: Create a Planetarium**

<b>In Your Kit:</b>	<b>You Provide:</b>
Penlight	Empty salt carton

**Page 17: Observe Drawings of the Universe**

<b>In Your Kit:</b>	<b>You Provide:</b>
None	None ( <i>Observe pictures printed in book.</i> )

**Page 19: Model a Planet's Orbit**

<b>In Your Kit:</b>	<b>You Provide:</b>
Styrofoam ball Umbrella	None

**Page 34: Refracting Telescope**

<b>In Your Kit:</b>	<b>You Provide:</b>
Waxed paper 2 Convex lenses Modeling clay Tealight Candle	2 Books or wood blocks Helper

**Page 35: Reflecting Telescope**

<b>In Your Kit:</b>	<b>You Provide:</b>
Mirror Concave 50mm D	None

**Page 39: Draw an Ellipse**

<b>In Your Kit:</b>	<b>You Provide:</b>
2 Thumbtacks Spool of Thread ( <i>use in place of fish line</i> )	20 cm x 20 cm piece of corrugated cardboard

**Page 45: Construct an Astrolabe**

<b>In Your Kit:</b>	<b>You Provide:</b>
13 cm x 8 cm x 1.5 cm block of wood 20 cm x 20 cm x 3 cm block of wood 20 cm x 3 cm x 3 cm block of wood Straw Thread Small Metal Washer 4 cm nail 5 cm nail	20 cm x 20 cm piece of corrugated cardboard Tin can ( <i>cut a 1.5 cm x 8 cm piece of tin from the can and taper the piece to a point</i> ) Half-circle protractor ( <i>on page 57</i> ) Full-circle protractor ( <i>on page 57</i> ) Glue

**Page 24: Model Solar System**

<b>In Your Kit:</b>	<b>You Provide:</b>
None	Roll of package sealing tape Scissors Construction paper or butcher paper

**Page 32: Model Orbit**

<b>In Your Kit:</b>	<b>You Provide:</b>
Chalk	Bicycle wheel free to spin on its axle Circle of corrugated cardboard, 30 cm in diameter Tape

## UNIT 4 (continued)

## Page 33: Model the Moon's Orbit

In Your Kit:	You Provide:
Thread Protractor	Square of paper 110 cm x 110 cm ( <i>a large sheet of butcher paper or several sheets of paper taped together</i> ) Black colored pencil Red colored pencil

## Page 44: Model the Moon's Orbit

In Your Kit:	You Provide:
Drawing compass Protractor	Banner paper or several sheets of paper taped together

## UNIT 5

## Page 11: Demonstrate the Greenhouse Effect

In Your Kit:	You Provide:
2 Thermometers Stopwatch	2 Shoe boxes Sheet of clear plastic or pane of glass

## UNIT 6

## Page 6: Determine Weather Patterns

In Your Kit:	You Provide:
<i>None</i>	Newspaper or website that gives weather information such as temperature, barometric pressure, humidity, wind speed & direction, and rainfall

## Page 17: Determine Dew Point

In Your Kit:	You Provide:
Thermometer	Shiny metal can Water Ice cubes

## UNIT 7

*There are no experiments in this unit.*

## UNIT 8

## Page 4: Observe Cells

In Your Kit:	You Provide:
Toothpick Slides & Coverslips Pipet 3" Dropper Iodine Solution Tweezers	Water Microscope (If you need to purchase a microscope, please contact Nature's Workshop Plus!)

### Page 28: Observe your Pupil

<b>In Your Kit:</b>	<b>You Provide:</b>
Flat Mirror Penlight (Can use for bright lamp.)	<i>None</i>

### Page 31: How your Senses Work Together

<b>In Your Kit:</b>	<b>You Provide:</b>
Blindfold	Bite-size slice of apple Bite-size slice of potato

### Page 33: Study your Sense of Touch

<b>In Your Kit:</b>	<b>You Provide:</b>
<i>None</i>	2 Sharpened pencils

### Page 7: Model Two Layers of Pleura

<b>In Your Kit:</b>	<b>You Provide:</b>
2 Slides	Water

### Page 13: Investigate How the Heart Works

<b>In Your Kit:</b>	<b>You Provide:</b>
<i>None</i>	Sink full of water

### Page 15: Find your Pulse

<b>In Your Kit:</b>	<b>You Provide:</b>
Stopwatch	<i>None</i>

### Page 26: Investigate Enzymes in Saliva

<b>In Your Kit:</b>	<b>You Provide:</b>
<i>None</i>	Piece of bread or cracker

### Page 5: Test a Hypothesis

<b>In Your Kit:</b>	<b>You Provide:</b>
Red food coloring	Stalk of celery Half a glass of water Teaspoon Sharp knife

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## **PRECAUTIONS AND FIRST AID INFORMATION**

### **Iodine Solution:**

**Warning:** Avoid contact with eyes, skin and clothing.

**First Aid Information:** After contact with eyes and/or skin, wash immediately with plenty of water.

If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

If inhaled, allow the victim to rest in a well ventilated area. Do not induce vomiting. Seek immediate medical attention.

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