

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

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**www.workshopplus.com**

P.O. Box 425

3055 East Main Street

Danville, IN 46122

**46120 – Laboratory Equipment Set  
For Alpha-Omega Grade 9**

<b>Item</b>	<b>Quantity</b>	<b>Item Number</b>
Alcohol Lamp with Stand (Fuel not included)	1	50708
Bag of Rocks (½ bag)	1	40728-bag
Bar Magnet (Alnico I)	1 Set of 2	46116
Beaker, glass, 250 ml	1	50653
Bird Seed (1½ Tbsp)	1	40427-3
Bubbles	1	46121
Food Coloring	1	40263
Gloves	1	40348-1
Grad. Cylinder, plastic, 100 ml	1	50634
Jar, 4 oz, plastic, with lid	1	40463
Mass Scale	1	50704
Large Balloon	1	40220-lg
Masking Tape	1	40256-roll
Mass Set	1	46123
Modeling Clay	2	40555-2
Oblong Foil Baking Tray	1	40641
Paper Clips, large, 10/pack	1	40530-10
Paper Clips, small, 25/pack	1	40530-25
Pipet 3" Dropper	1	50418
Ruler, 30 cm	1	40333
Safety Goggles	1	50681
Sand	1	40456-4
Small Piece of Wood	1	40829
Sulfuric Acid, 5 ml	1	45130
Thermometer, Celsius, 12"	1	50630
Thread	1	40223
Vials	1 Set of 5	46122-set

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46120 – Laboratory Equipment Guide  
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UNIT 1

Page 4: Compare Liquids and Solids

In Your Kit:	You Provide:
Masking Tape	None

Page 5: Investigate Gases

In Your Kit:	You Provide:
Balloon	None

Page 7: Explore Magnetism

In Your Kit:	You Provide:
2 Magnets Piece of wood	None

Page 5: Construct an Atom Model

In Your Kit:	You Provide:
2 Colors of clay	None

UNIT 2

Page 3: Invent a Standard of Measurement

In Your Kit:	You Provide:
5 Vials (different sizes) 4-oz Jar (use in place of baby food jar)	5 Large jars (different sizes)

Page 7: Measure Volume using the Displacement Method

In Your Kit:	You Provide:
Graduated cylinder, 100 ml Small rocks	None

Page 12: Make a Balance

In Your Kit:	You Provide:
None	1 Base: 2 cm x 14 cm x 20 cm 2 Support posts: 2 cm x 5 cm x 15 cm 1 Balance rod: dowel, 1 cm diameter, 1 m long 1 Clothes hanger or piece of wire: 21 cm long 1 file and small piece of sandpaper 1 small drill the size of the wire 2 small milk cartons: ½ pint or 1/3 quart size 4 small nails: 4 cm long 2 medium paper clips White glue

*\*Save your balance for future experiences.*

**Page 16: Practice Using a Balance**

<b>In Your Kit:</b>	<b>You Provide:</b>
Box of paper clips, medium size	Five small objects

**Page 18: Investigate Units of Mass**

<b>In Your Kit:</b>	<b>You Provide:</b>
Small paper clips Large paper clips Balance (Kitchen Scale)	<i>None</i>

*\* NOTE: When using the kitchen scale, you may need to use more than one paper clip to obtain a readable measurement. Then you can use simple math to determine the mass of one paper clip. For example, if 5 paper clips equal 1 gram, it is safe to assume that 1 paper clip equals 0.2 g.*

**Page 24: Calculate Density**

<b>In Your Kit:</b>	<b>You Provide:</b>
Soap Bubble Kit Ruler	<i>None</i>

**Page 27: Explore the Correlation between Temperature, Mass, and Density**

<b>In Your Kit:</b>	<b>You Provide:</b>
Beaker, 250 ml Thermometer Alcohol lamp and stand (heat source) Safety goggles	Fuel for Alcohol Burner (Lamp)

**Page 30: Demonstrate Archimedes' Principle**

<b>In Your Kit:</b>	<b>You Provide:</b>
Ball of clay Paper clips	Dish pan one-fourth full of water

**Page 31: Determine Specific Gravity**

<b>In Your Kit:</b>	<b>You Provide:</b>
Balance (Kitchen Scale) Beaker, 250 ml Graduated cylinder, 100 ml	Detergent Catch container 5 Small objects

**Page 8: Demonstrate Earthquake Waves**

<b>In Your Kit:</b>	<b>You Provide:</b>
<i>None</i>	Pencil Desk or small table Long sheet of paper String Brick

**Page 35: Measure Specific Gravity**

In Your Kit:	You Provide:
Set of metric masses Strong thread Beaker, 250 ml Various rocks	<i>*Use your balance from pervious experiments.</i>

**There are no experiments in these units.**

**Page 4: Model Precipitation**

In Your Kit:	You Provide:
Screw-top jar lid Bird seed	Paper towels Plastic sandwich bag Rubber band or wire tie Water

**Page 8: Discover Causes of Water Pollution**

In Your Kit:	You Provide:
Jar with a lid	Water Small amount of soil

**Page 10: Discover How Canals Flow**

In Your Kit:	You Provide:
Oblong Baking Tray Sand Assorted small rocks	Water

**Page 11: Investigate Flow of Substances in an Environment**

In Your Kit:	You Provide:
Medicine dropper Food coloring	3 Clear glass containers of various sizes Water Watch with a second hand

**Page 14: Identify Sources of Protein**

In Your Kit:	You Provide:
<i>None</i>	Labels from various food products such as soups, fish , peanut butter, cereals, jellies, dairy products, coffee, butter, soybeans, and beef

**Page 23: Observe the Effects of Sulfuric Acid**

<b>In Your Kit:</b>	<b>You Provide:</b>
Flat cake pan Sulfuric acid Medicine dropper	Wooden pencil Small piece of metal Small piece of plastic Paper napkin Small pieces meat product or dog food

**Page 31: Discover the Importance of Pulp and Paper Industry**

<b>In Your Kit:</b>	<b>You Provide:</b>
<i>None</i>	One of your city's newspapers (preferably the Sunday edition) Yardstick

**There are no experiments in this unit.**

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## **PRECAUTIONS AND FIRST AID INFORMATION**

### **Sulfuric Acid:**

**Warning:** *Risk of serious damage to eyes. Irritating to eyes, respiratory system and skin. Harmful if inhaled or swallowed.*

**First Aid Information:** *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of ... (Water, unless specified as water-reactive). If swallowed, do not induce vomiting: seek medical advice immediately and show this container.*

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