

Orders: (888)-393-5663

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P.O. Box 425

3055 East Main Street

Danville, IN 46122



**46110 – Laboratory Equipment Set
For Alpha-Omega Lifepac Grade 8**

Item	Quantity	Item Number
3" Nail	4	40826
Alcohol Lamp with Stand (Fuel not included)	1	50708
Bag of Plastic BB's	1	46119-1
Balloons	2	40220
Bar Magnet (Alnico I)	1 Set of 2	46116
Bar of Soap, small	1	40723
Beaker, glass, 250 ml	3	50653
Cotton String, 30 ft.	1	40544-30
Cotton Thread	1	40223
Electrostatic Kit	1	46192
Filter Paper Set	1	51747
Glucose Test Strips, 25 pack	1	46112-25
Graduated Cylinder, plastic, 50 ml	1	50647
Grass Seeds, ½ cup	1	46115-1/2c
Horseshoe Magnet, 3"	1	46117
Index Cards (Set of 50)	1	40341-50
Inflatable Globe	1	40230
Iodine Solution (Lugol's) 30 mL	1	50699
Iron Metal Filings, 30 g	1	50022-1
Large Marbles (Set of 10)	1	40238-lgset
Large Paper Clips	2	40530-lg
Mass Scale	1	50704
Matchbook	1	40276
Measuring Tape	1	40225
Milk of Magnesia, 2 oz.	1	46111
Needle	1	40234
Oblong Foil Baking Tray	3	40641

Paintbrushes	2	40446
Paper Clips, small	2	40530-2
Phenolphthalein Solution, 10 mL	1	51735
Pipet (Eyedropper)	1	50670
Plaster of Paris, ½ cup	1	40246-½
Plastic 6" Ruler	1	50413
Plastic Funnel	1	50707
Pulley	1	50531
Razor Blade (single-edge disposable)	1	46114
Red & Blue Litmus Paper	1	50705
Rubber Bands (Thin) , 5pk	1	40245
Ruler	1	40333
Safety Goggles	1	50681
Slide Coverslips & Slides (Set of 10ea)	1	50701
Small Block of Wood	2	40829
Spring Scale, 100 g/1 N	1	50570
Stirring Rod, glass, 12"	2	50711
Stopwatch	1	40533
Tea Light Candle	1	40738
Test Tube Rack	1	50561
Test Tubes, small 15x125 mm (Set of 6)	1	50709
Thermometer, Celsius, 12"	2	50630
Thin Cardboard, 8 x 11	2	40282
Toothpicks (10pk)	1	40549-10
Washers (Set of 25)	1	40271-25
Wire Test Tube Holder	1	50600

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46110 – Laboratory Equipment Guide For Alpha-Omega Grade 8

UNIT 1

Page 15: Measurement Practice

In Your Kit:	You Provide:
Ruler Graduated cylinder, 50 mL Balance: Mass Scale	A bathroom scale to weigh larger objects.

UNIT 2

Page 4: Determine Volume

In Your Kit:	You Provide:
Ruler Small block of wood	<i>None</i>

Page 5: Determine Volume of an Irregular Object

In Your Kit:	You Provide:
String Graduated cylinder, 50 mL	Small rock Water

Page 7: Classify Objects

In Your Kit:	You Provide:
<i>None</i>	At least 6 different objects that may be found nearby (rocks, pencil, eraser, chalk, etc.)

Page 8: Calculate Density

In Your Kit:	You Provide:
Mass Scale Small block of wood Ruler	<i>None</i>

Page 10: Compare Temperature

In Your Kit:	You Provide:
Celsius thermometer 3 Beakers, 250 mL Alcohol lamp with stand (may be used in place of the stove to heat the beakers)	Water Labels Ice cubes Stove (optional) Fuel for Alcohol Burner (Lamp)

Page 11: Observe a Chemical Change

In Your Kit:	You Provide:
4 Iron nails	4 Jars Vinegar Labels Ammonia Lemon Water

Page 13: Create Crystals

In Your Kit:	You Provide:
Cotton string Paper clip Beaker, 250 mL	3 cups Sugar Water Hot plate or stove Spoon Pencil

Page 14: Observe the Properties of a Liquid

In Your Kit:	You Provide:
2 Beakers, 250 mL Large Marbles Bag of BB's	<i>None</i>

Page 29: Decompose Sugar

In Your Kit:	You Provide:
Test tube Fire source (alcohol lamp with stand) Safety Goggles Test tube holder	Sugar

Page 34: Research Chemical Compounds

In Your Kit:	You Provide:
<i>None</i>	Chemistry reference books or access to the Internet

Page 37: Separate a Mixture

In Your Kit:	You Provide:
Mass Scale Funnel Filter paper	Salt Sand Water Measuring cups

Page 4: Observe a Physical Change

In Your Kit:	You Provide:
Stirring rod	Paper Lump of sugar Small glass of water Soda cracker

Page 7: Separate a Mixture using a Physical Change

In Your Kit:	You Provide:
Beaker, 250 mL Stirring rod	Sugar Dish Water Teaspoon

Page 8: Observe a Change in Phase (Solid to a Liquid)

In Your Kit:	You Provide:
Alcohol lamp and stand Safety goggles String Beaker, 250 mL Thermometer Stopwatch	Crushed ice Object that can substitute as a ring stand OR a helper to hold the thermometer in place Fuel for Alcohol Burner (Lamp)

Page 11: Explore Boiling Point and Melting Point

In Your Kit:	You Provide:
2 Beakers, 250 mL Alcohol lamp and stand Safety goggles Stirring rod Thermometer Stopwatch Mass Scale	Ice Cloth or Styrofoam cup Water Fuel for Alcohol Burner (Lamp)

Page 13: Produce an Exothermic Reaction

In Your Kit:	You Provide:
Plaster of Paris, ½ cup 2 Thermometers Stirring rod	Water 2 Glasses or cups Flour

Page 18: Observe Rapid Oxidation

In Your Kit:	You Provide:
Small candle Matches Beaker, 250 mL	Glass

Page 29: Identify Acids and Bases

In Your Kit:	You Provide:
6 Test tubes Test tube rack	Red Cabbage, Knife, Pot, Water, Heat source, Small glass jar, Baking soda in water, Crayons or colored markers, Vinegar, Ammonia, Lemon juice, Milk, Spoon

Page 30: Perform a Litmus Test using Blue Litmus Paper

In Your Kit:	You Provide:
Blue litmus paper	Orange juice, Salt water, Vinegar, Cider, Sugar water, Ammonia, Liquid soap, Lemon juice, Baking soda in water

Page 37: Perform a Litmus Test using Phenolphthalein

In Your Kit:	You Provide:
Phenolphthalein Eyedropper Milk of Magnesia (only use one-third of the provided amount) Beaker, 250 mL	Spoon Vinegar Soapy water

Page 37: Perform a Litmus Test using Red Litmus Paper

In Your Kit:	You Provide:
Red litmus paper Beakers, 250 mL Milk of Magnesia (save some for one last experiment)	Household ammonia, Salt water, Lemon juice, Sugar water, Baking soda in water

Page 38: Write a Secret Message

In Your Kit:	You Provide:
Phenolphthalein 2 Paintbrushes	Paper Soapy water or ammonia

Page 43: Mix Acids and Bases

In Your Kit:	You Provide:
Beaker, 250 mL Milk of Magnesia Phenolphthalein Eyedropper	Water Spoon Vinegar

Page 8: Test Foods for Starch, Sugar, Minerals, Fat, and Protein

In Your Kit:	You Provide:
Glucose Test Strips Iodine Eyedropper	Heat source, Cooked egg white, Bits of cheese, Dried milk, Soda cracker, Egg Yolk, Aluminum foil, Any fruit, Bits of green or yellow vegetables, White bread, Paper towel, Potato slice, Bits of various food

Page 17: Classify Foods

In Your Kit:	You Provide:
50 File Cards	Color sections of newspapers or magazines

There are no experiments in this unit.

Page 3: Find Magnetic North and South Poles

In Your Kit:	You Provide:
Inflatable globe Measuring tape	<i>None</i>

Page 5: Create a Compass

In Your Kit:	You Provide:
Bar magnet Needle	Glass Water

Page 7: Create a Magnetic Field

In Your Kit:	You Provide:
2 Bar magnets Horseshoe magnet Iron filings	Sheet of glass or plastic

Page 17: Explore Electrostatics

In Your Kit:	You Provide:
Electrostatic Friction Set (includes Glass, Rubber, and Plastic Rods, and Pieces of Cloth) Balloons	<i>None</i>

Page 34: Construct a Solar Cooker

In Your Kit:	You Provide:
<i>None</i>	Hot dog, Aluminum foil, Cardboard, 2 Nails, Scissors, Glue

Page 16: Construct a Simple Scale

In Your Kit:	You Provide:
2 Pieces of thin cardboard, 8 x 11" Rubber bands Paper clips 25 Washers	<i>None</i>

Page 32: Calculate Manpower

In Your Kit:	You Provide:
Stopwatch	Scale to weigh students Tape Measure or yardstick

Page 4: Investigate Friction, Part 1

In Your Kit:	You Provide:
String	Pebbles Coins Small plastic bag

Page 5: Investigate Friction, Part 2

In Your Kit:	You Provide:
None	All items from the previous investigation 8 or 10 round sticks (pencils, Tinker Toys, or dowels)

Page 8: Test Friction-Reducing Materials

In Your Kit:	You Provide:
2 Blocks of wood Bar of soap	None

Page 11: Operate a Lever

In Your Kit:	You Provide:
Ruler	2 Coins Tape

Page 22: Examine a Wheel and Axle

In Your Kit:	You Provide:
2 ½ meters of string	Pencil sharpener (wall mounted) Book

Page 25: Operate a Pulley

In Your Kit:	You Provide:
Pulley (Use this in place of coat hanger, spool, and wire cutters) String	Book

Page 29: Examine Gears

In Your Kit:	You Provide:
None	Hand Eggbeater

Page 25: Create an Inclined Plane

In Your Kit:	You Provide:
Rubber band Rulers of different lengths	Pebbles 3 or 4 Books

Page 4: Observe Plant Cells

In Your Kit:	You Provide:
Razor blade Glass slides Cover slips	Microscope (Contact Nature's Workshop, Plus! if you need to purchase a microscope.) Leaves from 2 unlike plants Water

Page 6: Observe Transpiration

In Your Kit:	You Provide:
Beaker, 250 mL	Freshly picked leaves Clear plastic bag Fastener

Page 43: Investigate Erosion

In Your Kit:	You Provide:
3 Pans Grass Seed Ruler	Soil Sprinkling can Water

Page 9: Explore Properties of Matter

In Your Kit:	You Provide:
Beaker, 250 mL Graduated cylinder, 50 mL Magnet	6 unidentified items in a box Dish to catch water

Page 12: Measure Odor Intensity

In Your Kit:	You Provide:
None	Ammonia

Page 16: Separate a Mixture

In Your Kit:	You Provide:
Toothpicks	Bottle containing a material prepared by the teacher

Page 17: Examine a Pressure Cooker

In Your Kit:	You Provide:
None	Pressure Cooker

Page 18: Write a Chemical Equation

In Your Kit:	You Provide:
Iron Filings	Jar

Page 26: Observe Heat Transfer

In Your Kit:	You Provide:
Alcohol lamp and stand Safety goggles	Microscope (Contact Nature's Workshop, Plus! if you need to purchase a microscope.) Leaves from 2 unlike plants Water Fuel for Alcohol Burner (Lamp)

Page 30: Model Energy Transfer

In Your Kit:	You Provide:
None	Box of Dominoes

Page 33: Review Magnetism

In Your Kit:	You Provide:
Bar Magnet Iron Filings Block of wood	Paper Other unmagnetized materials

Page 41: Identify Mechanical Advantage

In Your Kit:	You Provide:
String Spring Balance	Board 2- to 3-ft. long Piece of metal or similar objects of different weights

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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.

Phenolphthalein Solution

Warning: Hazardous in case of skin or eye contact. Prolonged exposure may result in skin burns and ulcerations.

First Aid Information: Flush eyes with plenty of water for at least 15 minutes. In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. If swallowed, do not induce vomiting unless directed to do so by medical personnel. If inhaled, remove to fresh air. Get medical aid.

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