Nature's Workshop Plus Inc. P.O. Box 425 3055 East Main Street Danville, IN 46122



"Enjoying God's World of Nature"

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25050 - Household Supplies Add-On Kit for Discovering Design with Chemistry

Designed to use in addition to the Laboratory Set for Discovering Design with Chemistry

Enclosed is a Quick Reference Chart where all items from this kit are listed alphabetically and include the quantity, the bag number where the item is found, as well as the chapter number where the item will be used.

Things You Need To Know.

Following the Quick Reference Chart, you'll find a supplies list organized by chapter. There are 3 catagories:

- 1. Basic Lab Set
- 2. Household Supplies Kit
- 3. You Provide
- 1. The *Basic Lab Set* refers to the labratory equipment set custom designed for use with *Discovering Design with Chemistry* by Dr. Jay Wile. The assumption is made that you own the kit or have access to the supplies which are listed under the heading *Basic Lab Set*.
- 2. The *Household Supplies Kit* refers to the items contained in this kit. Items are listed alphabetically and are keyed to a bag number. The kit is organized with supplies bagged by household catagories. Each bag contains a number and name. You'll be referred to each needed item by its bag number, where you'll find the supplies that are called for.
- 3. *You Provide*. Every effort has been made to create a complete kit, however there are some items that are not practical to include. You'll find these items listed in this catagory.

General Safety Rules

- Before you do any experiment, read these instructions and the instructions for that experiment completely.
- Always recap each bottle when you are through with it, and keep all bottles and other materials away from younger children and pets.
- Handle chemicals with care. Observe all Caution notices. In the event of misuse (ingestion, inhalation, skin contact) immediately contact the United States National Poison Control Hotline @ 800-222-1222.
- A list of materials precedes each experiment. Some experiments require the use of common household items and materials. Common household chemicals not supplied in this kit can be purchased at local stores.
- Avoid contact between any chemical and your skin. Never rub your eyes or put your fingers in your mouth after handling a chemical. Always wash your hands immediately with soap and warm water after working with any chemical.
- Before you begin any activity, roll up your sleeves, put on an apron or smock, or other protective clothing. Tie long hair back from your face so it doesn't block your view or get caught in any equipment. Also, cover your work area with newspaper or a plastic sheet. Avoid splashing chemicals on wood surfaces, vinyl flooring, carpet, etc. Keep chemicals away from food areas.
- Always clean your equipment and work area after each activity. Clean your lab equipment, such as pippets and scoops, with warm, sudsy water. It's okay if a small amount of liquid or solid waste goes down the drain, but you should not dispose of waste material by flushing it. After your equipment is clean, be sure to wash the sink with lots of water. Be careful not to use a kitchen towel for clean up. Use a rag or paper towels that can be disposed of.

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25050 - Household Supplies Add-On Kit for Discovering Design with Chemistry

Quick Reference Chart

with a list of items contained in this Kit

Item #	Item name	QTY	Bag #	Use in Chapter #
40236-1	Aluminum Foil, 1 sq. ft.	2	2	4
40236-4	Aluminum Foil, 4"x4"	2	2	12, 15
45055	Hosuehold Ammonia	1	3	16
40821-2	Antacid, 2 tablets	1	1	15
40735-2	Baker's Yeast, 1 Tbsp	1	3	2, 10, 15
40262-1/4	Baking Soda, 1/4 cup	1	3	7, 8, 11, 13
40220-lg	Balloon, large	6	1	7, 10, 13
40220-sm	Balloon, small	3	1	5, 10
40820	Battery, 9-Volt	2	1	4, 6
40521-1	Battery, AA	1	1	12
40224-1	Black Marker	1	1	9
40263-blue	Blue Food Coloring	1	2	6
40463	Bug Catching Jar, 4 oz. with lid	1	4	10
40461	Canning Jar, 12 oz.	1	4	10
40282-4	Corrugated Cardboard, 4"x4"	1	5	13
23602-5	Charcoal, 5 pk.	1	1	4
40827	Circular Pie Pan	1	2	6
40524	Clear Plactic Cup	1	4	4
40241-120mL	Cooking Oil, 4 oz.	2	3	1, 5
25005	Cylindrical Bottle	1	4	1
40264-2	Dish Soap, 10-ml	1	3	5
64008	Economical Magnifier	1	1	5
40272	Effervescent Tablet, 2pk.	1	1	7
40431-1	Feathers, 2 pk.	1	1	4
25012	Galvanized Nail, 3 in.	1	1	6
25016	Glass Cleaner, 5mL	1	3	11
40774	Heavy Duty Paper Plate	2	2	4
41223-16	Hydrogen Peroxide, 16 oz.	1	3	2, 12, 15
40341-1 Bulk	Index Card	1	5	4
25018	Laundry Detergent, 1 tsp	1	3	11

Item #	Item name	QTY	Bag #	Use in Chapter #
25014	Liquid Hand Soap, 5 mL	1	3	11
40256-4in	Masking Tape, 4 in. strip	1	5	10
22550	Measuring Cups	1	2	13
25008	Measuring Spoons Set	1	2	2, 3, 4, 6, 12, 13
40461-2	Metal Lid for 12 oz. Glass Jar	1	4	10
25019	Metal Object (such as a bolt)	1	1	13
40555-2	Modeling Clay	1	1	10
40824-1	Olive Oil, 10 mL	1	3	5
40450-1	Paper Towel	2	5	12
23706	Pes Gravel/Pebbles, 1 Tbsp	1	1	10
40272	Pint-size Plastic Bag, 6"x6"	2	2	4, 10
40233-1	Plain Paper	1	1	6
25006	Plastic Tongs	1	2	13
40269	Plastic Water Bottle	4	6	7, 10
40245-3.5x1/4lg	Rubberband, large	1	1	14
40333	Ruler, cm, wood	1	1	1, 3, 4, 10
40240-1/2	Table Salt, 1/2 cup	1	3	1, 3, 4, 9, 12
40729-1/2pc	Steel Wool, 1/2 pc	1	2	6, 12
40471	Styrofoam Cups	13	4	9, 12, 13, 16
40266-5	Sugar, 2 Tbsp	1	3	4, 9
40738	Tea Light Candle	1	1	13
40222-2	Thumbtacks, set of 2	1	1	4
40549-bulk	Toothpicks	3	2	2
40723	Trial-Size Soap Bar	1	1	11
22552	Turkey Baster	1	2	7, 10
40261-32	Vinegar, qt.	1	3	2, 7, 8, 11, 12, 13, 14, 15, 16
40445	Waxed Paper sq. ft.	1	5	7, 14
40544-1	White Cotton String, 1 foot	1	1	6
40544-3	White Cotton String, 3 feet	1	1	10
40233-1	White Paper	1	5	6

This kit is designed for use with the Discovering Design with Chemistry textbook. Instructions for the experiments are found in the student textbook.

Nature's Workshop Plus! Inc., assumes no liability for any damage or injury incurred through accidental or intentional misuse or abuse of any of the chemicals or other products contained in this kit. All experiments should be performed under adult supervision exactly as outlined in the textbook "Discovering Design with Chemistry".

Chapter 2 continued

Supplies Organized by Chapter

Supplies Needed - Chapter 1 Basic Lab. Set:

Dropper Pipette Funnel Mass Scale Safety Goggles 50-mL Plastic Cylinder 250-mL Beaker Safety Goggles

Household Supplies Kit with Bag Number:

Cooking Oil	3
Cylindrical bottle	4
Ruler	1

You Provide:

Salt in a salt shaker Soft Cover Book Water and sink

Supplies Needed - Chapter 2 Basic Lab. Set:

Alcohol Burner Filter Paper Funnel Mass Scale Safety Goggles Watch Glass 100-mL Beaker 250-mL Baker

Household Supplies Kit with Bag Number:

Measuring Spoon Set	2
Salt	3
Vinegar	3

Continued next column

You Provide:

Fresh or Dried Chevril Herb Matches or Lighter Milk Water and Sink

Supplies Needed - Chapter 3 Basic Lab. Set:

Cupric Sulfate Dropper Pipette Strontium Chloride Safety Goggles 100-mL Beaker

Household Supplies Kit with Bag Number:

Measuring Teaspoon	2
Ruler	1
Table Salt	3

You Provide:

Bowl
Ceramic Plate
Denatured Alcohol (available at hardware store)
Dish Towel
Eggs, 4
Glass Caserole Dish
Glasses, 2 small
Matches or lighter
Microwave Oven
Sink
Wisk

Supplies Needed - Chapter 4

Basic Lab. Set:

Safety Goggles

Household Supplies Kit with Bag Number:

Aluminum Foil 12 in. Sq.	2
Charcoal, 5 pc.	
Clear Plastic Cup	4
Feathers	-
Heavy Paper Plate	4

Continued next column

Chapter 4 continued

Index Card	5
Measuring Tablespoon	2
Metal Thumbtacks, 2pk	1
Plastic Bag 6"x6"	2
Ruler	1
Sugar	3
Table Salt	3
9-Volt Battery	1

You Provide:

Distilled Water Hammer Ice Cubes, 2 Lamp With Bare Bulb Sharp Knife

Supplies Needed - Chapter 5

Basic Lab. Set:

Funnel Safety Goggles 100-mL Beaker 250 mL-Beaker

Household Supplies Kit with Bag Number:

Balloon, small	1
Dish Soap	3
Economical Magnifier	1
Olive Oil	3
Vegetable Oil	3

You Provide:

A Helper Sink Spoons, 2 Water

Supplies Needed - Chapter 6 Basic Lab. Set:

Dropper Pipette, 2
Mass Scale
Safety Goggles
Thermometer
50- mL Graduated Cylinder
100 mL-Beaker
250 mL-Beaker

Continued next page

Chapter 6 continued

Household Supplies Kit with Bag Number:

Battery, 9 Volt	1
Blue Food Coloring	2
Circular Pie Pan	2
Galvanized Nail	1
Measuring Teaspoon	2
Steel Wool (Save for chapter 12.)	2
White Cotton String 1 ft.	1
White Paper	5

You Provide:

Denatured Alcohol Glasses, 3 tall Ice Pan, small Spoon Stove Water

Supplies Needed - Chapter 7

Basic Lab. Set:

Alcohol Burner Cupric Sulfate **Dropper Pipette** Glass Stirring Rod Graduated Cylinder Mass Scale Safety Goggles Watch Glass 100-mL Beaker

250-mL Beaker

Household Supplies Kit with Bag Number:

Baking Soda	3
Balloons, 3 Large	_1
Effervescent Tablets	1
Measuring Teaspoon	2
Turkey Baster	2
Vinegar	3
Wax Paper (Save excess for ch. 14.)	<u>5</u>
3-Plastic Water Bottles	6

You Provide:

Water

Supplies Needed - Chapter 8 Basic Lab. Set:

Dropper Pipette Graduated Cylinder Mass Scale Safety Goggles Watch Glass 250-mL Beaker

Household Supplies Kit with Bag Number:

Baking Soda	3
Measuring Teaspoon	2
Vinegar	3

You Provide:

Nothing Additional

Alcohol Burner

Supplies Needed - Chapter 9 Basic Lab. Set:

Dropper Pipette Graduated Cylinder Mass Scale Stirring Rod Test Tubes, 3 Thermometer Safety Goggles Sodium Hydroxide Strontium Chloride 100-mL Beaker 250-mL Beaker

Household Supplies Kit with Bag Number:

Black Marker	1
Salt	3
Styrofoam Cups, 3	4
Sugar	3

You Provide:

A Helper Can of Soda, cold Coffee Saucer Denatured Alcohol (available at hardware store) Dish Towel Freezer Glasses, 3 small Ice Matches

Water and Sink

Supplies Needed - Chapter 10 Basic Lab. Set:

Funnel Mass Scale Safety Goggles Thermometer

Household Supplies Kit with Bag Number:

_1
3
1
5
1
1
4
2
6
1
4
1
2
3

You Provide:

A Helper Freezer Ice Kitchen Towel Microwave Oven Pot for Boiling Pot Holder/Oven Mitts Scissors Stove Small Juice Glass Small Plate Wall Mirror

Water

Weather Report

Supplies Needed - Chapter 11

Basic Lab. Set:

Alcohol Burner **Dropper Pipette** Graduated Cylinder Litmus Paper, Red and Blue Mass Scale Safety Goggles Sodium Hydroxide Continued next page

Supplies Needed - Chapter 15 Chapter 11 continued Chapter 12 continued Test Tubes, 4 Basic Lab. Set: You Provide: 100-mL Beaker Alcohol Burner Copper Penny 250-mL Beaker Graduated Cylinder Scissors Household Supplies Kit Mass Scale Spoon with Bag Number: Water Safety Goggles Baking Soda Test Tubes, 2 Bar of Soap 1 100-mL Beaker Supplies Needed - Chapter 13 3 Glass Cleaner 250-mL Beaker Basic Lab. Set: 3 Laundry Detergent Household Supplies Kit 3 <u>Liquid Hand Soap</u> Alcohol Burner with Bag Number: Funnel Vinegar Mass Scale Aluminum Foil (Saved from ch.12.) 2 You Provide: Safety Goggles Antacid Tablets 1 Apple Thermometer Bleach Hydrogen Peroxide 3 250 mL-Beaker 3 Vinegar Distilled Water Household Supplies Kit Yeast 3 Knife with Bag Number: Lemon or Orange Juice You Provide: Milk Baking Soda Sharp Knife Red Cabbage Balloons, 2 Large Spoon Sink Cardboard 4"x4" Water Small Glass Measuring Cups 2 Soda Pop Measuring Spoons Tap Water Metal Object Supplies Needed - Chapter 16 Tub and Tile Cleaner Plastic Tongs 2 Basic Lab. Set: Yogurt Styrofoam Cups, 2 4 Alcohol Burner Tea Light Candle Copper II Sulfate (Cupric Sulfate) Supplies Needed - Chapter 12 Vinegar Dropper Pipettes, 2 You Provide: Basic Lab. Set: Safety Goggles Spoon Copper II Sulfate (Cupric Sulfate) Stirring Rod Bowl Stove Safety Goggles Test Tubes, 2 Ice Strainer Stirring rod 100-mL Beaker Pan Water Test Tube Sink 250-mL Beaker 100-mL Beaker Household Supplies Kit Supplies Needed - Chapter 14 250-mL Beaker with Bag Number: Household Supplies Kit Basic Lab. Set: Ammonia with Bag Number: Calorimeter (saved from chapter 13) Styrofoam Cups, 3 4 Mass Scale Aluminum Foil 4"x4" Vinegar 3 Safety Goggles (Save excess foil for ch.15.) Sodium Hydroxide Battery, AA You Provide: Hydrogen Peroxide 3 Glasses, 2 small Household Supplies Kit Measuring Spoons 2 Ice with Bag Number: Paper Towel 5 Red Cabbage Large Rubber Band Salt 3 Pot for Boiling Vinegar Steel Wool (Saved from chapter 6) 2 Sharp Knife Waxed Paper (Saved from ch.7.) Styrofoam Cups, 3 4 Sink Vinegar 3 You Provide: Stove Sharp Knife Water Continued next column