



"Enjoying God's World of Nature"

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Apologia's Physical Science, 4th Edition

Alphabetical listing of items in the kit, quantity, location of item within the kit, and in which lesson items are used.

Item # 40800-4

| Item Number | Item Name | Quantity | Module Bag |
|--------------------|------------------------------------|-----------------|-------------------|
| 51870 | Aluminum Pie Pan, 8 in | 1 | 7 |
| E40262-1/4c | Baking Soda, ¼ cup | 1 | 2B |
| 40220-lg | Balloon, Large | 6 | 7, 9,11,13 |
| 40220-sm | Balloon, Small | 1 | 4 |
| 40820 | Battery, 9 Volt | 2 | 2B, 5A |
| 40521-1 | Battery, AA | 1 | 11 |
| 50653 | Beaker, 250ml | 4 | Beaker Bag |
| 40282 | Cardboard, Chipboard, 8 ½ x 11" | 2 | Misc Kit |
| 40253 | CD | 1 | 10 |
| 40333 | Centimeter Ruler | 1 | Misc Kit |
| 40235 | Clear Tape | 1 | 7 |
| 40475-1/4 | Construction Paper, Black, ¼ sheet | 1 | Misc Kit |
| E40241-8oz | Cooking Oil, 1 c, 8 oz | 1 | 2A |
| 40250 | Cork | 4 | 2A |
| E40721-2/3c | Corn Syrup, 2/3 cup | 1 | 2A |
| E40825-box | Cornstarch, 16 oz | 1 | 12 |
| 45020 | Digital Scale | 1 | 1 |
| E40264-60ml | Dish Soap, ¼ c, 60 ml | 1 | 5B |
| E40264-10ml | Dish Soap, 10 ml | 1 | 4 |
| 40244 | Dishcloths | 2 | 10 |
| E50418 | Dropper, 3 inch | 1 | 14 |
| 50631 | Dual Scale Thermometer | 1 | Loose in Box |
| 64008 | Economical Magnifier | 1 | 1 |
| 40272 | Effervescent Antacid Tablet, 2 pk | 1 | 1 |
| 40270 | Electrical Tape | 1 | 2B |
| 40822 -1/2 | Epsom Salt, ½ c | 1 | 5A |
| 40828 | Eraser, Small | 1 | 1 |
| 40229-fl | Flashlight | 1 | 10 |
| 40236-1f | Foil 1 ft | 2 | 7, 11 |
| 41230 | Food Coloring, 4 pk | 1 | 2A |
| 40469 | Funnel (Large Size) | 1 | Loose in Box |
| E41223-8oz | Hydrogen Peroxide, 8 oz | 1 | 5B |
| 40341-bulk | Index Cards, single | 2 | 7 |
| 40538-2ft | Insulated Wire, 2 ft | 1 | 11 |

| Item Number | Item Name | Quantity | Module Bag |
|--------------------|-----------------------------|-----------------|-------------------|
| 40538-9in | Insulated Wire, 9" 2 pk | 1 | 2B |
| E40732-2/3c | Isopropyl Alcohol 2/3 cup | 1 | 2A |
| 40288-1lg | Large Straw | 1 | 4 |
| 40747-1cup | Liquid Measuring Cup, 1 cup | 1 | 2A |
| 40238-4 | Marbles, small | 4 | 2A |
| 40224-R | Marker, Red | 1 | 10 |
| 40256-roll | Masking Tape Roll | 1 | 5A |
| 40276 | Matchbook | 1 | 9 |
| 40225 | Measuring Tape | 1 | 6 |
| 40042 | Microscope Slides, 2 pk | 1 | 4 |
| 45054 | Mirror, 4x6, large | 1 | 10 |
| 40555-2 | Modeling Clay, individual | 1 | 5A |
| 40826 | Nail, 3 in | 1 | 11 |
| 40531-2 | Paper Clip, Large, 2 pk | 1 | 11 |
| 40450-1 | Paper Towels | 1.5 oz | Loose in Box |
| 40233 | Paper, White | 8 | Misc Kit |
| 40239 | Pencils, unsharpened | 4 | 7 |
| 40920 | Ping-Pong Ball | 1 | 14 |
| 40420 | Plastic Cup, 5 oz | 7 | 14 |
| 40922-1 | Plastic Lid for Tub | 1 | 11 |
| 46915 | Plastic Pipette, 1ml | 1 | 4 |
| 51745-2 | Plastic Test Tubes 2 pk | 1 | 5A |
| 40833 | Protractor | | 10 |
| E40836 | Pumice | 1 | 12 |
| 40832-2 | Rice, 1 tbsp | 1 | 9 |
| 50620 | Rubber Stopper 25mm Solid | 1 | 7 |
| 40245-3"x1/16" | Rubberband, small | 2 | 9, 13 |
| 40245-lg | Rubberbands - Large | 4 | 8 |
| 50681 | Safety Goggles | 1 | Loose in Box |
| E40778-1tbsp | Salt Substitute, 1 tbsp | 1 | 5B |
| 40221-lg | Scissors, Large | 1 | Misc Kit |
| 40247 | Skewers | 4 | Misc Kit |
| 40530-10 | Small Paper Clips, 10 pk | 1 | 2A |
| 40729-3 | Steel Wool, Large Piece | 1 | 5B |
| 50711-6 | Stirring Rod, 6" | 1 | 1 |
| 40288-1lg | Straw, large | 1 | 7 |
| 40471 | Styrofoam Cup, 10 oz | 1 | 4 |
| 51869 | Styrofoam Packing Peanut | 1 | 5B |
| E40240-1/4c | Table Salt, 1/4 cup | 1 | 12 |
| 40738 | Tealight Candle | 1 | 9 |
| 23607 | Tennis Ball | 1 | 8 |
| 40549-5 | Toothpicks, 5 pk | 1 | 4 |
| 40261-32 | Vinegar, qt | 1 | Loose in Box |

| Item Number | Item Name | Quantity | Module Bag |
|----------------|----------------------------------|----------|------------|
| 41028 | Vitamin C Tablet, 1000 mg | 1 | 14 |
| 46306 | Washable Dry Erase Marker, Black | 1 | 10 |
| 40271 | Washers | 4 | 2A |
| 40445 | Wax Paper, 12x12 | 1 | Misc Kit |
| 40544-10 | White Cotton String, 10 ft | 1 | 7 |
| 51833 | Wide Mouth Quart Jar | 1 | 2A |
| 40735 – 2 tbsp | Yeast, 2 tbsp | 1 | 5B |
| E40277 | Zip Bag 6x6 | 1 | 12 |
| 40281-1 | Zip Bag 6x9 | 1 | 12 |

Things You Need to Know

Thank you for choosing our supplies kit to enhance your study through the *Apologia's Physical Science, 4th Edition* text. The kit is easy to manipulate by following a few simple instructions.

First, within these pages of information, you will find a chart of all items within the kit listed alphabetically. It lists the quantity of each item and where it is found in the kit. It is to be used for easy location of any item regardless of which module you are studying. You will also find our office item numbers in case you need to phone for replacements of any items.

Second, you will find a Module-by-Module break down of what **you need to provide** for each Module. Every effort has been made to provide all reasonable items within the kit so that your study is not hampered by an absence of supplies, however, some things are unreasonable for us to provide. This will be obvious as you proceed.

Third, the best way to locate necessary items as you progress through the course is to always return supplies to their original bag when the experiments are completed. The labels on each bag will direct you to "save for" a later module or where to find a needed item. **Just by following the directives on each label, you'll be able to manipulate the kit with ease.**

Fourth, there is no Module 3 Bag! Module 3 does not require additional supplies.

Enjoy your study!

Please Note!

Module 14 calls for *Tincture of Iodine*. Due to supply issues we were not able to include it in this kit. Please watch for this item at your local pharmacy as it is becoming difficult to obtain. It might need to be a special order from your pharmacy.

Apologia's Physical Science, 4th Edition

List of Items that you provide, listed by module.

| Module | Items You Provide |
|----------|---------------------------------|
| 1 | Water |
| 2 | Cellphone Timer |
| | Grapes |
| | Ice Cubes |
| | Pennies |
| | Water |
| 3 | All items for Module 3 |
| 4 | Butter |
| | Edibles |
| | Glass |
| | Ice Cubes |
| | Knife |
| | Microwave |
| | Pen |
| | Spoon |
| | Toilet Paper |
| | Water |
| 5 | Deep Bowl (see photo on pg 163) |
| | Kitchen Knives |
| | Tablespoon |
| | Water |
| | Cellphone Timer |
| | Nail Polish Remover |
| | Old Tray |
| | Spoon |
| 6 | Books |
| | Cellphone Timer |
| | Cookie Sheet |
| | Eggs |
| | Kitchen Table |
| 7 | 2 Liter Bottle |
| | Books |
| | Eggs |
| | Nickel |
| | Small Piece of Paper |
| 8 | Baseball or Soccer Ball |
| | Shovel |

| Module | Items You Provide |
|-----------|--------------------------------|
| 9 | Bowl |
| | Glass Bottle |
| | Plastic Tub |
| | Plastic Wrap |
| | Pot |
| | Water |
| | Wooden Spoon |
| 10 | Baking Dish |
| | Bowl |
| | Cellphone Timer |
| | Glass |
| | Quarter |
| | Sunny Window |
| | Water |
| 11 | Canvas Gloves, optional |
| | Clear Glass |
| | Pliers |
| 12 | Bowl |
| | Eggs |
| | Ice Cubes |
| | Potholders |
| | Pen |
| | Sauce Pan |
| | Shallow Pan |
| | Stirring Spoon |
| | Tablespoon |
| | Water |
| 13 | 1 Liter Water Bottle |
| | All supplies for 13.2 (pg 450) |
| | Ice Cubes |
| | Plastic Cup |
| | Sink |
| | Teaspoon |
| | Water |
| 14 | Edibles for pg 484 |
| | Iodine Tincture |
| | Plastic Wrap |
| | Supplies for pg 482 |
| | Teaspoon |
| | Water |

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. Caution notices and antidotes for chemicals are listed in these instructions. 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 pipets 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.

Disposal of Chemicals

None of the chemicals in this kit pose any significant environmental hazard. However, you should still use caution when you dispose of your waste chemicals. The waste materials from each experiment should be placed in a small plastic container, like a pill vial or film canister, and the container should be placed in a sealable bag. The contained material may then be placed in the garbage for disposal in a land fill. Never mix waste products from two different experiments in the same waste container.

Crushing and Grinding Chemicals

For some activities you will need to crush a solid chemical into a fine powder. One method is to wrap the solid in a cloth, tap the object with a hammer to break it into smaller crystals. Keep your fingers out of the way. Then pour the pieces into a clean dry jar lid, and grind them into a fine powder using the back of an old spoon.

Notebook

Even if you have a great memory, it helps to keep a written record of what you do. Include how you prepared, what steps you did, and what you observed during and after the activity. Good records often include notes, drawings, graphs, and even photographs.

Distilled Water

Unless the directions call for a specific type of water, it is best to use distilled water if possible.

**Please check your order for any shortages or damaged items upon receipt.
Contact us at Nature's Workshop Plus, Inc. for replacement items.**

Please observe all safety precautions when doing experiments.