

# Elementary Science Program

Prices in this catalog are in effect  
11/1/18 - 10/31/19

## Guide for Services Purchase Catalog



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# Overview

## What is ESP?

The Elementary Science Program (ESP) of the Monroe 2–Orleans BOCES provides a hands-on, interdisciplinary curriculum that converts the elementary classroom into a science laboratory. It is a balanced content and process focused curriculum committed to providing students with concrete experiences that promote depth of understanding and science literacy.

Using the Elementary Science Program units, students learn to think, talk, and act scientifically. The inquiry process and problem solving is emphasized throughout the curriculum. Students are consistently building on their current knowledge, asking questions, conducting investigations, and asking more questions – like true scientists! The meaningful, hands-on activities with student processing of ideas in the ESP science units allow all students to use their hard-wired and learned processes to build meaning.

The ESP curriculum emphasizes the following inquiry, process and STEM skills:

- Classifying
- Communicating
- Comparing and contrasting
- Creating models
- Gathering and organizing data
- Generalizing
- Identifying variables
- Inferring
- Interpreting data
- Making decisions
- Manipulating materials
- Measuring
- Observing
- Predicting

## New York State Learning Standards Correlation

The goal of the ESP is to support teachers in meeting the educational goals established by the New York State Department of Education. The educators at the ESP are in the process of realigning curriculum to the new New York State Science Learning Standards. Additional emphasis on STEM activities is being added to existing resource units, and new units are being developed. School districts contracting with the ESP can rest assured that we will remain at the forefront of any changes that occur during this transition period. Correlations are also made, when appropriate, to the Common Core State Standards in English Language Arts and Literacy, and Mathematics.



## Overview

### Teacher Support

In addition to providing the resources for the classroom, the professional development and on-going support provided by the ESP is a vital part of the program. Support for teachers is also provided through our website ([www.espsciencetime.org](http://www.espsciencetime.org)), online streaming videos, the ESP Facebook page, the ESP listserv, and over the phone. Our staff will also accommodate your school's professional development needs in the area of science instruction.

The Elementary Science Program is committed to help teachers and students engage in science instruction. The curriculum and materials provided through our program allow students to perform activities and pursue ideas and investigations on their own initiative while the teacher provides individual attention and direction.

Units of study are designed by administrators and teachers at the ESP who are certified and experienced in teaching science to students at a variety of grade levels. It is an integrated curriculum that incorporates New York State Science core content with English language arts, math, social studies, and fine arts core content.

Science kits are manufactured and refurbished at the ESP. Districts determine the units they want to use based on their curriculum design.

All units include the hands-on materials for an entire class of students.

- Regular kits are for **thirty (30)** students.
- Mini kits are for **fifteen (15)** students

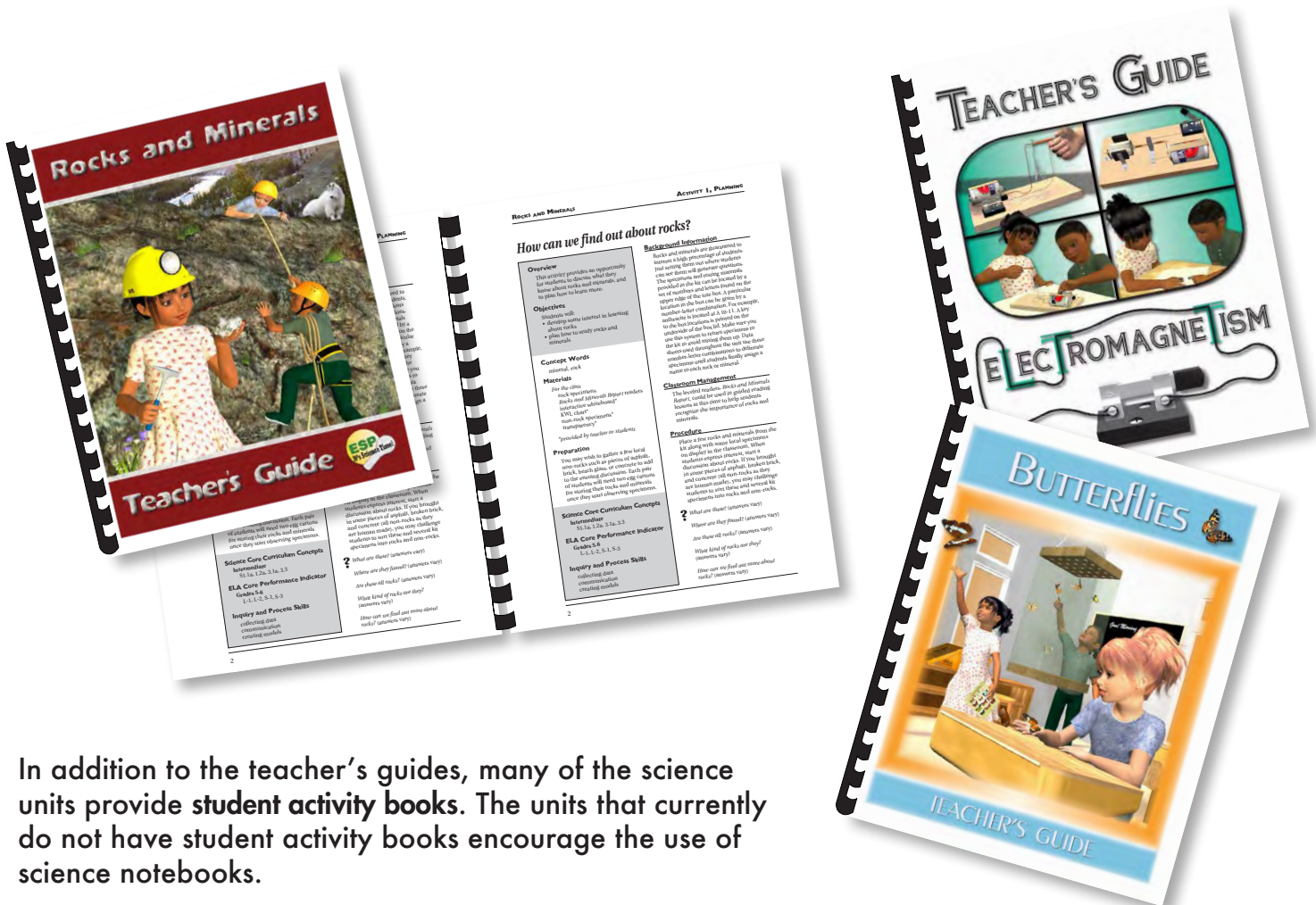


# Overview

The teacher's guide in each unit provides a wealth of information and guidance for the teacher.

These guides include...

- background information for the teacher on the topic of study
- materials lists
- guidance for preparation of each lesson
- classroom management ideas
- detailed procedures for each lesson
- suggestions for assessment, including when to administer the assessments provided with the unit
- indicators of suggested times to use the leveled readers throughout the unit
- extension ideas for your classroom
- correlations to the New York State Science Learning Standards.

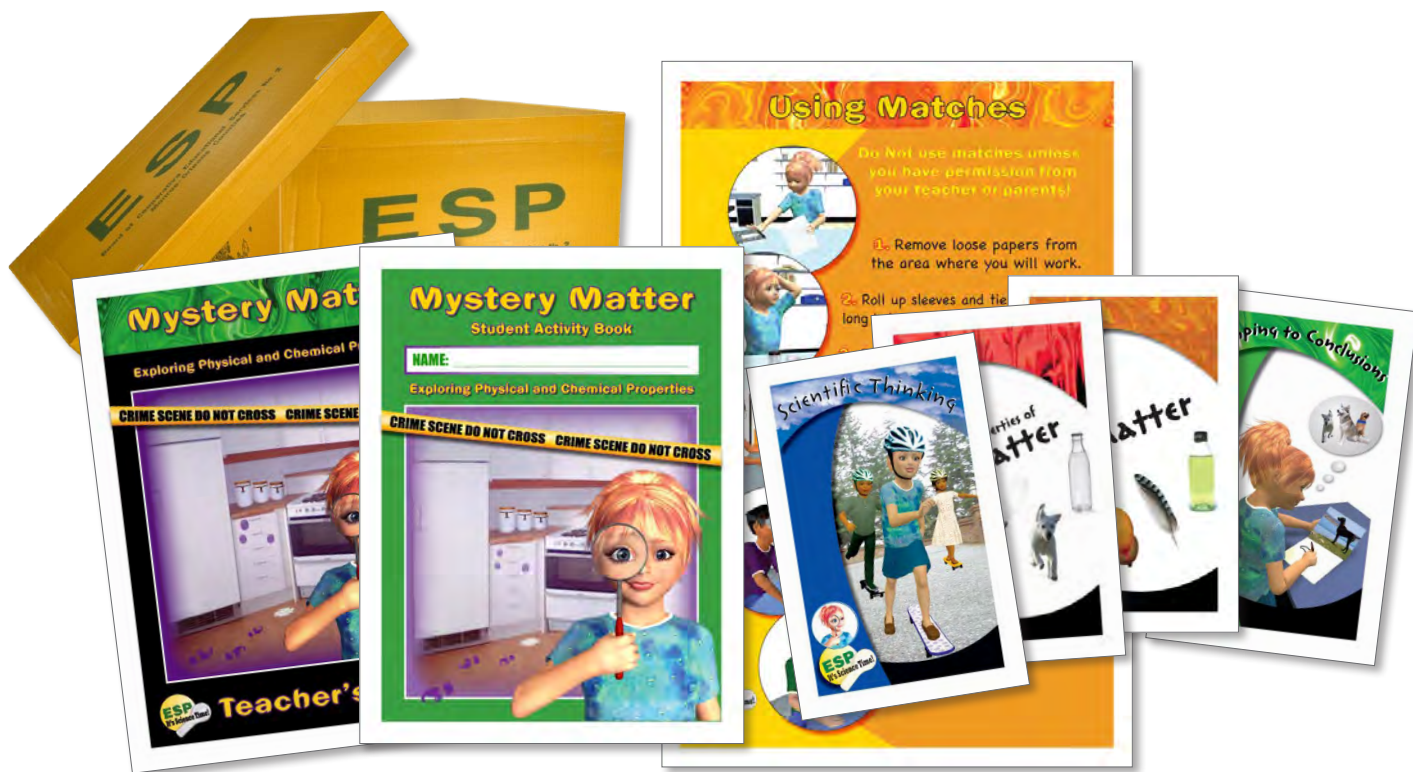


In addition to the teacher's guides, many of the science units provide student activity books. The units that currently do not have student activity books encourage the use of science notebooks.

# Overview

## Literacy Support

The revised ESP units include narrative and expository text, in the form of leveled readers, to support and add depth to instruction. These readers are designed for use in guided reading sessions apart from science time. Using the expertise of Monroe 2–Orleans BOCES reading specialists, each reader has been correlated to Fountas and Pinnell, Lexile and DRA reading levels. Each title is available at grade level and at one grade level above and one grade level below the grade for which the unit was designed. Readers having the same title provide exactly the same science content, despite requiring different levels of reading skill. A sample of the three readers for one of the titles is provided in the kit box. The entire set of readers for a unit can be printed from the password protected portion of the ESP website. Hard copies may also be ordered from the ESP.



Our units have a wealth of resources online at [www.espsciencetime.org](http://www.espsciencetime.org). These resources include assessments for the unit, leveled readers, interactive whiteboard activities, photos, journal pages, and a variety of other resources that may pertain to a particular unit of study. These resources seek to make teaching and learning science with the ESP units easier and more fun for you and your students.

## Overview

**Cast of Characters**

The revised units have bold, new computer rendered graphics that feature a multicultural cast of six children who model curiosity and excitement about STEM. Students involved in the program will follow these characters through a variety of investigations.

Kindergarteners through third graders will become acquainted with Joe Jemison, Shawna Jackson, and Jake Golden. Fourth through sixth graders will get to know Sasha Brown, Darrell Sand and Maria Lopez. Students will also see the kids' dogs Sparky and Volt from time to time.

Grades 4-6



Grades K-3



# Kit Refill Packages

## Regular Kits (30 Students)

The following refill packages may be purchased to replenish supplies that will be consumed each time the unit is used. Only minimum purchase orders of \$25.00 will be accepted.

### Astronomy (RPA003) . . . . . \$114.00

- 5 Tongue depressors
- 10 Red latex balloons
- 15 Paper clips
- 1 Thread bobbin
- 8 Printed protractors
- 1 Masking tape
- 5 Straws
- 10 Toothpicks
- 5 Styrofoam balls
- 24 Thumb tacks
- 15 Graph paper
- 20 "D" batteries
- 4 Modeling clay
- 1 MSDS information packet
- 1 Unit Password



### Classroom Plants (RPC010) . . . . . \$114.00

- 1 Package marigold seeds
- 1 Package mung bean seeds
- 1 Package petunia seeds
- 1 Package nasturtium seeds
- 1 Package impatiens seeds
- 1 Package coleus seeds
- 1 Package rye grass seeds
- 50 Tumblers
- 30 Petri dishes
- 13 Styrofoam trays
- 15 Plastic bags
- 10 Twist ties
- 1 Bag pebbles
- 1 Bag gravel
- 2 8 quarts potting mix
- 1 Deli container
- 1 Roll tape
- 1 Dowel
- 1 Wax pencil
- 8 Pipettes
- 8 Plastic spoons
- 1 MSDS information packet
- 1 Unit Password



### Buoyancy (RPB035) . . . . . \$102.50

- 4 Packages modeling clay
- 1 Roll aluminum foil
- 4 Wax pencils
- 1 Bag table salt
- 1 MSDS information packet
- 3 Plastic cups
- 7 Styrofoam cups
- 1 Package paper towels
- 1 Unit Password



### Crayfish (RPC020) . . . . . \$78.50

- 1 Bouillon cube
- 1 Bag table salt
- 2 Vials sand
- 1 Dropper bottle food coloring
- 1 MSDS information packet
- 1 Unit Password



### Butterflies (RPB040) . . . . . \$105.50

- 2 Dropper bottles (for sugar water)
- 12 Sponge feeder stations
- 1 Piece nylon mesh
- 30 Culture vessels with lids
- 30 Filter papers
- 12 Paper fasteners
- 1 MSDS information packet
- 1 Unit Password

Living materials shipped separately: (BURLMRF) . . \$77.50\*

- 1 Container 30 butterfly larvae
- 1 Culture medium

Living materials shipped separately: (CRRLMRF) . . \$24.50\*

- 1 Culture of 12 live crayfish



# Kit Refill Packages

## Regular Kits (30 Students) cont.

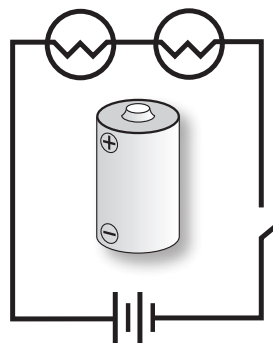
### Earthworms (RPE005) ..... \$114.00

- 1 Earthworm forestry picture
- 6 Attitude surveys
- 1 2ml Clear plastic 18x18x42
- 2 4x8 ziplock bags
- 8 Sheets black construction paper
- 4 Latex gloves (non-latex available upon request)
- 1 Glue stick
- 2 Magnifiers
- 1 2 quart bag potting mix
- 1 Plastic spoon
- 1 Roll masking tape
- 1 Package paper towels
- 1 MSDS information packet
- 1 Unit Password

Living materials shipped separately: (WORMEAR) . \$20.25\*  
 250 Live earthworms

### Electrical Circuits (RPE015) ..... \$186.50

- 50 #40 bulbs
- 25 #41 bulbs
- 72 "D" batteries
- 1 Spool nichrome wire
- 20 Battery holders
- 1 Spool bare copper wire
- 10 Clear plastic containers
- 5 Circuit folders
- 2 Switches
- 1 Screwdriver
- 1 Roll aluminum foil
- 20 Fahnestock clips
- 1 Bag citric acid
- 1 Bag salt
- 1 Bag sugar
- 1 Bag baking soda
- 1 Pad steel wool
- 4 Large paper clips
- 30 Small paper clips
- 15 plastic bags
- 1 Red LED light
- 10 Engineering Design Portfolios
- 1 MSDS information packet
- 1 Unit Password



### Electromagnetism (RPE020) ..... \$324.00

- 1 Spool #26 plastic coated wire
- 96 "D" cells
- 30 Large project boards
- 15 Small project boards
- 5 Compasses
- 10 Ceramic labeled bar magnets
- 20 Rubberized magnets
- 4 10d steel nails
- 4 10d aluminum nails
- 35 4d common nails
- 100 #82 rubber bands
- 15 #30 rubber bands
- 250 Fahnestock clips
- 15 Dowels
- 30 Large wood screws
- 100 Paper clips
- 1 Roll masking tape
- 100 Small screws
- 2 Small motors
- 2 Bulb holders
- 15 Medicine cups
- 4 #48 bulbs
- 1 Spool thread
- 1 Spool #20 bare copper wire
- 8 Strips emery cloth (1x4)
- 15 Large corks with one hole
- 15 Buzzer arms
- 45 Metal angles
- 30 Switches
- 15 Washers
- 30 Metal brushes
- 1 Unit Password



\* Shipping costs included in price.

# Kit Refill Packages

## Regular Kits (30 Students) cont.

### Interactions (RPI015).....\$165.00

- 4 Dropper bottles BTB
- 1 Dropper bottle vinegar
- 1 Bag baking soda
- 20 Tumblers
- 10 Rubberized magnets
- 15 Pieces sand paper squares
- 15 Pieces paper (index stock) squares
- 15 Pieces clear plastic squares
- 15 Pieces copper foil squares
- 15 Pieces brass foil squares
- 15 Pieces aluminum foil squares
- 8 Sponge squares
- 15 Pipe cleaners
- 15 BB's
- 1 Package 30 sheets Ozalid paper
- 1 Large bag containing:
  - 15 Bags each containing:
    - 1 Rubber band
    - 1 "D" cell
    - 1 Paper clip
    - 1 Candy ball
    - 1 Small bar magnet
    - 1 #41 bulb
    - 1 15 cm piece copper wire
- 30 Straws
- 1 Jar Kool Aid
- 2 Bottles lemon juice
- 30 Pipe cleaners
- 30 Empty tea bags
- 8 Paper clips
- 8 Tongue depressors
- 5 Plastic trays
- 8 Steel nails
- 1 MSDS information packet
- 1 Unit Password

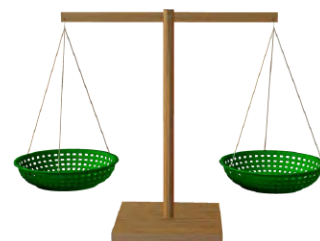


### Magnets (RPM005).....\$186.50

- 5 Bags containing:
  - 1 pine piece      1 brass piece
  - 1 steel piece     1 aluminum piece
  - 1 plastic piece   1 sponge piece
  - 1 tongue depressor
- 5 Magnetite rocks
- 5 Anthracite rocks
- 28 Rubber magnets
- 5 Refrigerator magnets
- 2 Labeled bar magnets
- 2 Button/disk magnets
- 8 Small iron/bar magnets
- 5 Magnetic Field Viewers
- 1 Roll masking tape
- 10 Zip lock bags
- 5 Compasses
- 200 #1 paper clips
- 1 Spool thread
- 1 Container iron filings
- 15 Plastic cups
- 1 Ball of clay
- 2 Overhead projector compasses
- 15 Dowels
- 9 Wooden wheels
- 30 8d common nails
- 15 Tongue depressors
- 5 Plastic observation boxes w/lids
- 5 Plastic trays
- 15 Paper plates
- 4 Styrofoam trays
- 1 MSDS Information Packet
- 1 Unit Password

### Measuring (RPM020).....\$119.00

- 30 Styrofoam cups
- 1 Set colored rubber bands
- 1 Box paper clips
- 4 Thermometers
- 1 Unit Password



# Kit Refill Packages

## Regular Kits (30 Students) cont.

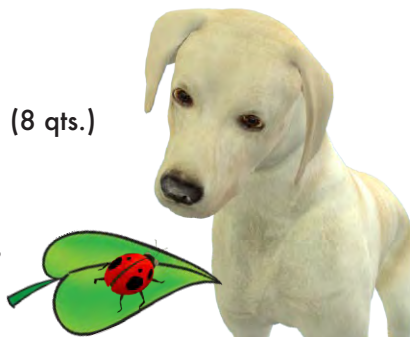
### Mystery Matter (RPM050) ..... \$159.50

- 4 Packages of paper souffle cups
- 4 Work trays
- 1 Bag baking soda
- 1 Bag table salt
- 1 Bag sugar
- 1 Bag Plaster of Paris
- 1 Bag mystery mix A
- 1 Bag mystery mix B
- 1 Bag mystery mix C
- 1 Bag of unknown substance for Performance Test Only
- 1 Bag citric acid
- 1 Bottle iodine
- 1 Spool thread
- 5 Clothespins
- 1 Bottle BTB
- 1 Bag starch
- 1 Bottle vinegar
- 1 Box of 750 toothpicks
- 15 Candles
- 1 Roll aluminum foil
- 15 Candle drip pans
- 15 Medicine cups
- 5 Microscope standard slides
- 1 MSDS information packet
- 1 Unit Password



### Plant Responses (RPP015) ..... \$132.50

- 1 Package pole bean seeds
- 1 Package mung bean seeds
- 1 Package radish seeds
- 1 Package tomato seeds
- 1 Package bush bean seeds
- 30 Petri dishes
- 1 Package paper towels
- 5 Medicine cups
- 60 Black bags
- 1 Bag table salt
- 1 Vial fertilizer
- 2 Bags potting soil (8 qts.)
- 6 Wax pencils
- 15 Planter sticks
- 15 Clear vials
- 15 Large clear cups



### Plant Responses (Continued)

- 30 Plastic bags
- 45 Small clear cups
- 1 Package oat seeds (for Performance Test only)
- 1 MSDS information packet
- 1 Unit Password

### Pollination (RPP020) ..... \$153.00

- 1 Package Fast Plant Seeds
- 15 Quads
- 1 Roll aluminum foil
- 60 Wicks
- 180 Fertilizer pellets
- 15 Plant labels
- 1 Package 60 bees
- 15 Filter papers
- 1 Water mat
- 2 Quarts potting soil
- 1 MSDS information packet
- 1 Unit Password



### Properties (RPP040) ..... \$143.00

- 10 Plastic cups
- 1 Dropper bottle concentrated bubble solution
- 10 #7 balloons
- 5 Sets Tangram pieces with stencils
- 2 Alka Seltzer tablets
- 5 Large balloons (#12)
- 30 Brown paper bags
- 1 Roll wax paper
- 80 Medicine cups
- 30 Plastic insulated wires
- 1 Dropper bottle liquid starch
- 1 Dropper bottle vinegar
- 1 Dropper bottle oil
- 1 Box tooth picks
- 2 Wax pencils
- 5 Feathers
- 8 Plastic trays
- 1 MSDS information packet
- 1 Unit Password

# Kit Refill Packages

## Regular Kits (30 Students) cont.

### Rocketry (RPR005) ..... \$361.00

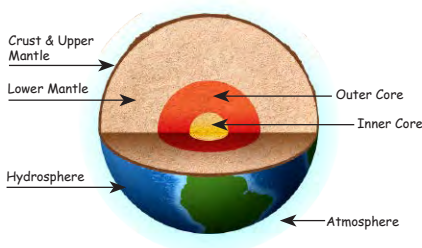
- 30 Engines
- 1 Can baby powder
- 30 Balloons
- 4 "AA" Alkaline batteries (new style) or one 6 volt battery (old style)
- 1 Roll flame proof crepe paper
- 10 Dowels
- 6 Pieces emery cloth
- 1 Spool braided nylon fishing line
- 1 Roll masking tape
- 30 Pieces oak tag
- 10 Printed protractors
- 10 Tangent charts
- 1 Spool thread
- 10 Tri-wall bases
- 1 Package of wadding
- 1 Package extra igniter wire
- 30 Rocket kits
- 1 MSDS information packet
- 1 Unit Password

Please see KIT PARTS section for engines, wadding, igniter wire and rockets.

### Rocks and Minerals (RPR010) .. \$105.00

- 1 bag of baking soda
- 5 8d Common nails
- 5 Streak plates
- 10 Clear plastic medicine cups
- 5 "D" cells
- 5 #48 bulbs
- 5 Pieces of copper wire
- 1 *Rocks and Minerals and How We Use Them* poster
- 1 *Rocks and Minerals Answer Key* (11x17 blue)
- 1 MSDS information packet
- 1 Unit Password

Please see KIT PARTS section for individual Rocks and Minerals specimens.



### Senses (RPS005) ..... \$186.50

- 3 Pairs of glasses
- 6 Red lenses
- 6 Yellow lenses
- 6 Blue lenses
- 6 Green lenses
- 1 Metal mirror
- 2 Styrofoam balls
- 1 Skein yarn
- 30 Ziplock bags
- 20 Jingle bells
- 20 #30 rubber bands
- 10 #10 rubber bands
- 10 #33 rubber bands
- 15 #82 rubber bands
- 110 Pipe cleaners
- 10 Film canister lids with holes
- 1 Piece netting
- 1 Package paper towels
- 40 Cotton balls
- 1 Roll adding machine tape
- 1 Bag navy beans
- 1 Bag gravel
- 15 Marbles
- 5 Bottles of misc. flavoring
- 1 Dropper bottle blue food coloring
- 1 Dropper bottle red food coloring
- 1 Dropper bottle yellow food coloring
- 4 Packages Jell-O
- 120 Souffle cups
- 2 Plastic knives
- 5 Plastic spoons
- 8 Buttons
- 4 Sponge squares
- 4 Fake fur pieces
- 4 Aluminum foil squares
- 8 Corks
- 4 Sandpaper squares
- 30 Index cards
- 6 Paper bags
- 5 Balloons
- 5 Wood blocks



# Kit Refill Packages

## Regular Kits (30 Students) cont.

### Senses (Continued)

- 5 Clothespins
- 5 Shells
- 1 Box macaroni
- 1 Roll masking tape
- 30 Styrofoam cups
- 32 Film canisters with lids
- 80 Paper plates
- 6 Styrofoam balls
- 25 Tumblers
- 25 Lids for tumblers
- 15 Fountain cups
- 1 Rainbow Template
- 30 Elastic straps w/barbs
- 1 Bag colored pieces of yarn
- 1 MSDS information packet
- 1 Unit Password

### Sky Calendar (RPS013) ..... \$159.50

- 24 "D" cells
- 24 Chalk
- 15 8½ x 11 graph paper 1/4"
- 8 Tongue depressors
- 1 Light bulb
- 1 MSDS information packet
- 1 Unit Password



### Structures (RPS040) ..... \$137.50

- 750 Straws
- 4 Packages clay
- 1500 Paper clips
- 1000 Index cards
- 1 Roll masking tape
- 1 Plastic knife
- 20 Plastic containers
- 5 Washers
- 1 Spool braided nylon fish line
- 4 Pizza tables
- 1 Bag gravel
- 1 Bag potting soil
- 45 Plastic stirrers
- 15 Medicine cups
- 15 Craft Sticks
- 1 Large paper clip
- 1 Tube of petroleum jelly
- 5 Plastic spoons
- 1 Bag Plaster of Paris
- 3 Sheets of Concrete Slab Molds
- 3 Sheets of Reinforced Concrete Slab Molds
- 1 MSDS information packet
- 1 Unit Password

### Waterplay (RPW005) ..... \$84.00

- 60 Straws
- 1 Roll aluminum foil
- 4 Balloons
- 2 Small sized balls
- 2 Middle sized balls
- 1 Dropper bottle red food coloring
- 1 Dropper bottle blue food coloring
- 1 Dropper bottle green food coloring
- 1 Dropper bottle yellow food coloring
- 12 Paper cups
- 1 Bottle soap bubble solution
- 6 Pieces plastic coated wire
- 1 Spool nylon braided fishing line
- 1 MSDS information packet
- 1 Unit Password

# Mini Kit Refill Packages

## Mini Kits (15 Students)

### Astronomy (RPA103) .....\$93.00

- 4 Tongue depressors
- 5 Red latex balloons
- 8 Paper clips
- 1 Thread bobbin
- 2 Printed protractors
- 1 Masking tape
- 5 Straws
- 8 Toothpicks
- 4 Styrofoam balls
- 12 Thumb tacks
- 8 Graph paper
- 6 "D" batteries
- 4 Modeling clay
- 1 MSDS Information Packet
- 1 Unit Password



### Crayfish (RPC120) ..... \$68.00

- 1 Bouillon cube
- 1 Bag table salt
- 2 Vials sand
- 1 Dropper bottle food coloring
- 1 MSDS information packet
- 1 Unit Password

Living materials to be shipped separately:

- 1 Culture of 6 live crayfish (CRMLMRF) .....\$15.00\*

### Earthworms (RPE105).....\$114.00

Mini and regular refill package contents are the same.

Living materials shipped separately: (WORMEAR) . \$20.25\*  
250 Live earthworms

(Live materials are not shipped Dec. - Feb.)

### Buoyancy (RPB135) . . . . . \$83.00

- 2 Packages modeling clay
- 1 Roll aluminum foil
- 2 Wax pencils
- 3 Plastic cups
- 4 Styrofoam cups
- 1 Package paper towels
- 1 Bag table salt
- 1 MSDS information packet
- 1 Unit Password

### Butterflies (RPB140) .....\$105.50

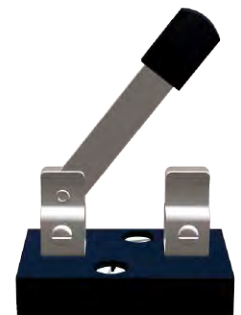
Mini and regular refill package contents are the same.

### Classroom Plants (RPC110) .....\$114.00

Mini and regular refill package contents are the same.

### Electrical Circuits (RPE115).....\$131.50

- 25 #40 bulbs
- 12 #41 bulbs
- 48 "D" batteries
- 1 Spool nichrome wire
- 10 Battery holders
- 1 Bag baking soda
- 1 Bag sugar
- 1 Bag citric acid
- 15 Fahnestock clips
- 1 Roll aluminum foil
- 1 Screwdriver
- 1 Switch
- 1 Spool bare copper wire
- 1 Bag salt
- 1 Pad steel wool
- 5 Plastic containers
- 3 Circuit folders
- 1 MSDS information packet
- 5 Engineering Design Portfolios
- 8 Plastic bags
- 4 Large paper clips
- 16 Small paper clips
- 1 Red LED light
- 1 Unit Password



# Mini Kit Refill Packages

## Mini Kits (15 Students) cont.

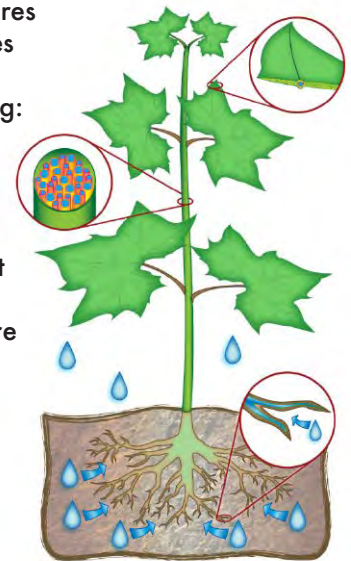
### Electromagnetism (RPE120) .....\$213.50

- 1 Spool #26 plastic coated wire
- 48 "D" cells
- 16 Large project boards
- 8 Small project boards
- 16 Metal brushes
- 6 Ceramic labeled bar magnets
- 10 Rubberized magnets
- 50 #82 rubber bands
- 125 Fahnestock clips
- 15 Large wood screws
- 50 Paper clips
- 100 Small screws
- 24 Metal angles
- 15 Switches
- 8 Washers
- 1 Spool #20 bare copper wire
- 4 10d steel nails
- 4 10d aluminum nails
- 16 4d common nails
- 2 Compasses
- 8 #30 rubber bands
- 8 Dowels
- 1 Spool thread
- 1 Roll masking tape
- 8 Large corks with one hole
- 8 Buzzer arms
- 4 Strips emery cloth (1x4)
- 1 Small motor
- 1 Bulb holder
- 8 Medicine cups
- 4 #48 bulbs
- 1 Unit Password



### Interactions (RPI115).....\$125.00

- 8 Pieces aluminum foil squares
- 1 Dropper bottle vinegar
- 1 Package 15 sheets Ozalid paper
- 10 Tumblers
- 5 Rubberized magnets
- 8 Pieces sand paper squares
- 8 Pieces paper (index stock) squares
- 8 Pieces clear plastic squares
- 8 Pieces copper foil squares
- 8 Pieces brass foil squares
- 1 Large bag containing:
  - 8 Bags each containing:
    - 1 Rubber band
    - 1 "D" cell
    - 1 Paper clip
    - 1 Candy ball
    - 1 Small bar magnet
    - 1 #41 bulb
    - 1 15 cm copper wire
- 15 Straws
- 1 Bag Kool Aid
- 1 Bottle lemon juice
- 15 Pipe cleaners - 4"
- 15 Empty tea bags
- 4 Tongue depressors
- 4 Steel nails
- 8 BB's
- 8 Pipe cleaners - 2"
- 4 Sponge squares
- 4 Paper clips
- 3 Plastic trays
- 1 Bag baking soda
- 4 Dropper bottles BTB
- 1 MSDS information packet
- 1 Unit Password



# Mini Kit Refill Packages

## Mini Kits (15 Students) cont.

**Magnets (RPM005)** ..... \$186.50

Mini and regular refill package contents are the same.

**Measuring (RPM120)** ..... \$87.00

- 15 Styrofoam cups
- 1 Set colored rubber bands
- 1 Box paper clips
- 2 Thermometers
- 1 Unit Password

**Mystery Matter (RPM150)** ..... \$123.00

- 2 Packages of paper souffle cups (¾ oz.)
- 2 Work trays
- 1 Roll aluminum foil
- 1 Bag Plaster of Paris
- 1 Bag corn starch
- 1 Bag citric acid
- 1 Bag mystery mix A
- 1 Bag mystery mix B
- 1 Bag mystery mix C
- 400 Toothpicks
- 5 Microscope standard slides
- 1 Bag baking soda
- 1 Bag table salt
- 1 Bag sugar
- 1 Bottle BTB
- 1 Bottle iodine
- 1 Bottle vinegar
- 8 Medicine cups
- 1 Spool thread
- 5 Clothespins
- 8 Drip pans for candles
- 8 Candles
- 1 Bag unknown substance for Performance Test Only
- 1 MSDS information packet
- 1 Unit Password



**Plant Responses (RPP115)** ..... \$99.50

- 1 Package pole bean seeds
- 1 Package mung bean seeds
- 1 Package radish seeds
- 1 Package tomato seeds
- 1 Package bush bean seeds
- 1 Package paper towels
- 30 Black bags
- 15 Petri dishes
- 15 Plastic bags (4x2x8)
- 24 Small clear cups
- 8 Planter sticks
- 6 Wax pencils
- 3 Medicine cups
- 8 Clear vials
- 1 Bag potting soil
- 1 Bag table salt
- 1 Vial fertilizer
- 8 Large clear cups
- 1 Package oat seeds (for Performance Test)
- 1 MSDS information packet
- 1 Unit Password



**Pollination (RPP120)** ..... \$153.00

Mini and regular refill package contents are the same.

**Properties (RPP140)** ..... \$112.00

- 5 #7 balloons
- 1 Roll wax paper
- 3 Sets Tangram pieces with stencils
- 1 Alka Seltzer tablet
- 2 Dropper bottles concentrated bubble solution
- 3 #12 Large balloons
- 5 Feathers
- 10 Medicine cups
- 1 Box toothpicks
- 15 Plastic insulated wires
- 1 Dropper bottle cooking oil
- 1 Dropper bottle liquid starch
- 1 Dropper bottle vinegar
- 15 Brown paper bags
- 5 Plastic cups
- 4 Plastic trays
- 1 Wax pencil
- 1 MSDS information packet
- 1 Unit Password





# Kit Refill Packages

## Mini Kits (15 Students) cont.

### Rocketry (RPR105).....\$233.00

- 15 Engines
- 1 Can baby powder
- 15 Balloons
- 1 Roll flame proof crepe paper
- 3 Pieces emery cloth
- 1 Spool braided nylon fishing line
- 1 Roll masking tape
- 15 Pieces oak tag
- 5 Printed protractors
- 5 Tangent charts
- 4 "AA" Alkaline batteries (new style)  
or one 6 volt battery (old style)
- 1 Package of wadding
- 1 Package of igniter wires
- 5 Dowels
- 1 Spool thread
- 5 Tri wall bases
- 15 Rocket kits
- 1 MSDS information packet
- 1 Unit Password

*Please see KIT PARTS section for ordering only rockets, engines, wadding and igniter wire.*

### Rocks and Minerals (RPR110) . . . \$93.00

- 1 bag of baking soda
- 5 8d Common nails
- 5 Streak plates
- 5 Clear plastic medicine cups
- 5 "D" cells
- 5 #48 bulbs
- 5 Pieces of copper wire
- 1 **Rocks and Minerals and How We Use Them** Poster
- 1 MSDS information packet
- 1 **Rocks and Minerals** Answer Key (11x17)
- 1 Unit Password

*Please see KIT PARTS section for individual Rocks and Minerals specimens.*

### Senses (RPS105) .....\$186.50

Mini and regular refill package contents are the same.

### Sky Calendar (RPS113) .....\$129.50

- 12 "D" cells
- 10 8½ x 11 graph paper 1/4"
- 8 Tongue depressors
- 8 Chalk
- 1 Light bulb
- 1 MSDS information packet
- 1 Unit Password

### Structures (RPS140) .....\$137.50

Mini and regular refill package contents are the same.

### Waterplay (RPW105).....\$84.00

Mini and regular refill package contents are the same.



# Kit Descriptions

## ESP Refill Package Order Form

You may use this form to order ESP Refill Packages.

Description	Part Number	Unit Price	Quantity	Total

Photocopy the completed form and submit, or find additional forms at [www.espsciencetime.org](http://www.espsciencetime.org).

**Total** \$ \_\_\_\_\_

# Kit Parts

Part Name	Part Number	Price	Quantity	Total
<b>Airpump</b> with airstone & 6' tubing . . . . .	AIRPUMP . . . . .	.\$20.00/each	_____	_____
<b>Airstone</b> . . . . .	AIRSTON . . . . .	1.50/each	_____	_____
<b>Aluminum foil</b> . . . . .	ALUFOIL . . . . .	5.00/each	_____	_____
<b>Bags</b>				
Black paper ( <i>Plant Responses</i> ) . . . . .	BAGPBLK . . . . .	1.25/each	_____	_____
Brown paper ( <i>Properties</i> ) . . . . .	BAGP5LB . . . . .	0.25/each	_____	_____
<b>Ziplock bags</b>				
3" x 4" x 2 ml . . . . .	BAGZ3X4 . . . . .	0.25/each	_____	_____
4" x 8" x 2 ml . . . . .	BAGZ4X8 . . . . .	0.25/each	_____	_____
4" x 4" x 2 ml . . . . .	BAGZ4X4 . . . . .	0.25/each	_____	_____
6" x 8" x 2 ml . . . . .	BAGZ6X8 . . . . .	0.50/each	_____	_____
10" x 12" x 2 ml . . . . .	BGZ1012 . . . . .	1.00/each	_____	_____
4" x 6" 2 ml . . . . .	BAGZ4X6 . . . . .	0.50/each	_____	_____
<b>Balances</b>				
Balance, double pan . . . . .	LGEALS . . . . .	25.00/each	_____	_____
Balance, small wooden . . . . .	SMALBAL . . . . .	6.00/each	_____	_____
<b>Batteries</b>				
"D" Cells, box of 24 . . . . .	BATT00D . . . . .	18.50/box	_____	_____
6 volt for Rocketry . . . . .	BATT006 . . . . .	20.00/battery	_____	_____
<b>Bubble blimp maker</b> ( <i>Waterplay</i> ) . . . . .	BUBBLMA . . . . .	7.50/each	_____	_____
<b>Bubble solution concentrate</b> ( <i>Waterplay</i> )				
Quart - makes 2.6 gallons . . . . .	SOAPBQT . . . . .	14.00/qt.	_____	_____
Gallon - makes 10.4 gallons . . . . .	SOAPGAL . . . . .	40.00/gal.	_____	_____
<b>Bulb holders</b> ( <i>Electrical Circuits</i> ) . . . . .	BULBHOL . . . . .	43.00/pkg. of 30	_____	_____
<b>Bulbs</b>				
#40 flashlight ( <i>Electrical Circuits</i> ) . . . . .	BULB/40 . . . . .	1.50/each	_____	_____
#41 flashlight ( <i>Electrical Circuits</i> ) . . . . .	BULB/41 . . . . .	1.50/each	_____	_____
#48 flashlight ( <i>Electromagnetism</i> ) . . . . .	BULB/48 . . . . .	1.50/each	_____	_____
18 watt fluorescent bulb (plant growth light) . . . . .	BULB018 . . . . .	30.00/each	_____	_____
<b>Buzzer arms</b> . . . . .	BUZZARM . . . . .	1.50/each	_____	_____
<b>Candles</b> , 6 hour . . . . .	CANDLES . . . . .	1.25/each	_____	_____
<b>Candle drip pan</b> . . . . .	CANDPAN . . . . .	0.50/each	_____	_____
<b>Ceramic weights</b> ( <i>Buoyancy</i> ) . . . . .	BAGWGHT . . . . .	100.00/bag of 540	_____	_____

**Subtotal** \$ \_\_\_\_\_

Photocopy the completed form and submit, or find additional forms at [www.espsciencetime.org](http://www.espsciencetime.org).

Transfer this Subtotal to page 26.

# Kit Parts

Part Name	Part Number	Price	Quantity	Total
<b>Chemicals*</b>				
Bromothymol blue. . . . .	BTB-102. . . . .	\$12.00/qt. or 35.00/gal.	_____	_____
Iodine solution for starch test . . . . .	IODINEO. . . . .	25.00/qt. or 100.00/gal.	_____	_____
Citric Acid . . . . .	CITRICA . . . . .	10.00/lb.	_____	_____
<i>*MSDS information included with shipment</i>				
<b>Compass (Electromagnetism, Magnets)</b>				
Transparent for overhead (Electromagnetism, Magnets) . . . . .	COMPASS . . . . .	5.00/each	_____	_____
(Electromagnetism, Magnets) . . . . .	MAGCOMP. . . . .	20.00/each	_____	_____
<b>Containers</b>				
Clear plastic boxes (Crayfish) . . . . .	CLPBX82 . . . . .	6.00/each	_____	_____
Containers, clear plastic 1.5 liter. . . . .	AQU2LIT . . . . .	5.00/each	_____	_____
Containers, clear plastic 2.5 liter (Buoyancy, Properties) . . . . .	AQU/GAL . . . . .	8.00/each	_____	_____
Containers, clear plastic 4 liter (Pond Life, Butterflies) . . . . .	AQU/TER. . . . .	15.00/each	_____	_____
Containers, 250 ml (Measuring). . . . .	BEAK250 . . . . .	3.25/each	_____	_____
Containers, 1000 ml (Measuring) . . . . .	BEAK1000 . . . . .	7.00/each	_____	_____
<b>Corks</b>				
1 1/2" x 1 1/16" drilled (Electromagnetism) . . . . .	CORKCYL. . . . .	0.75/each	_____	_____
7/8" x 7/8" drilled (Sound) . . . . .	CORK78D . . . . .	0.75/each	_____	_____
7/8" x 7/8" plain cork (Sound). . . . .	CORK78P. . . . .	0.75/each	_____	_____
7/8" x 7/8" 2 hole cork . . . . .	CORKD2X . . . . .	0.75/each	_____	_____
1 1/2" x 1 1/4" drilled . . . . .	CORKENF . . . . .	1.00/each	_____	_____
<b>Cube-O-Grams (Measuring)</b> . . . . .	CUBEOGR . . . . .	45.00/M	_____	_____
<b>Cups</b>				
Clear plastic 4 oz. . . . .	CONCP04 . . . . .	5.00/pkg. of 30	_____	_____
Clear plastic 9 oz. . . . .	CONCP09 . . . . .	9.00/pkg. of 50	_____	_____
Styrofoam 8 oz. . . . .	CUPFOAM . . . . .	7.00/pkg. of 100	_____	_____
Paper souffle cups 3/4 oz. . . . .	CUPS3/4 . . . . .	7.00/pkg. of 250	_____	_____
Paper souffle cups 2 oz.. . . . .	CUPS2OZ . . . . .	5.00/pkg. of 100	_____	_____
Paper 8 oz.. . . . .	CUP0008 . . . . .	9.00/pkg. of 100	_____	_____
<b>Display Pieces – Metal, wood, plastic, (Properties) 2" x 6" x 1/8"</b>				
Aluminum. . . . .	ALUMDIS . . . . .	3.00/each	_____	_____
Balsa . . . . .	BALDISP . . . . .	2.00/each	_____	_____
Brass . . . . .	BRASDIS . . . . .	15.00/each	_____	_____
Clear acrylic . . . . .	CLPLDIS. . . . .	5.25/each	_____	_____
Oak . . . . .	OAKDISP . . . . .	2.50/each	_____	_____
Opaque acrylic. . . . .	OPACDIS . . . . .	2.50/each	_____	_____
Pine . . . . .	PINDISP . . . . .	2.00/each	_____	_____
Steel . . . . .	STELDIS. . . . .	5.00/each	_____	_____
Walnut . . . . .	WALDISP . . . . .	3.00/each	_____	_____

**Subtotal** \$ \_\_\_\_\_



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# Kit Parts

Part Name	Part Number	Price	Quantity	Total
<b>Dowels</b>				
Wooden 3/4" x 36" (Sound)	DOWL3/4	\$5.00/each	_____	_____
Wooden 1/8" x 12" planter sticks.	DOWL1/8	30.00/60	_____	_____
Wooden 1/4" x 18" (Sound)	DOWL1/4	8.00/15	_____	_____
Wooden 1/8" x 4 1/2" (Electromagnetism)	DOWEL1/8	10.00/15	_____	_____
<b>Dropper bottles-plain</b> , 2 oz. w/ fold down spouts	DRBTL02	1.25/each	_____	_____
<b>Dropper bottles-labeled</b>				
BTB.	DRBTBTB	5.00/each	_____	_____
Cooking oil	DRBTOIL	5.50/each	_____	_____
Food coloring.	DRBTFCO	5.50/each	_____	_____
Iodine	DRBTIOD	5.50/each	_____	_____
Starch	DRBTSTA	5.50/each	_____	_____
Vinegar.	DRBTVIN	5.50/each	_____	_____
Water	DRBRWAT	5.50/each	_____	_____
<b>Emery cloth</b> , 1" x 4" (Electromagnetism)	EMERYPC	0.75/each	_____	_____
<b>Fahnestock clips</b>	FANCLIP	35.00/pkg. of 100	_____	_____
<b>Feathers</b>				
Large.	FEATHER	0.75/each	_____	_____
Duck (Properties)	FEADUCK	0.75/each	_____	_____
<b>Files</b> , triangular (Electromagnetism)	FILETRI	10.00/each	_____	_____
<b>Fish line</b> , black	FISHLIN	5.50/roll	_____	_____
<b>Flower pots</b> , 5"	FLWRPOT	1.00/each	_____	_____
Please specify <b>green or white</b> when ordering and if for <b>Crayfish or Classroom Plants</b>				
<b>Food coloring</b> , 2 oz. Dropper bottle				
Specify red, yellow, blue or green	FOODCLR	5.00/bottle	_____	_____
<b>Funnels</b>				
8 oz.	FUNEL08	3.50/each	_____	_____
4 oz.	FUNEL04	1.50/each	_____	_____
2 oz.	FUNEL02	2.25/each	_____	_____
<b>Geo Blocks</b> (Properties)	BOXGEOB	135.00/box	_____	_____
Includes one set of Problem Cards for Geo Blocks				
<b>Geo block cards</b> , set of 20	GEOBLCK	7.00/set	_____	_____
<b>Geo boards</b> (Measuring).	GEOBOAR	25.00/each	_____	_____
<b>Glass droppers</b>	EYEDROP	2.00/each	_____	_____
<b>Gravel/Sand</b> (Crayfish)	GRAVEL4	2.50/vial	_____	_____

**Subtotal** \$ \_\_\_\_\_

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Transfer this Subtotal to page 26.



# Kit Parts

Part Name	Part Number	Price	Quantity	Total
<b>Homosote</b>				
2" x 4" (Electromagnetism)	BASE2X4	\$2.00/each	_____	_____
4" x 8" (Electromagnetism)	PROBDLG	3.50/each	_____	_____
<b>Iron filings</b> (1 lb.)	IRONFIL	20.00/each	_____	_____
<b>Lamp base</b> (Light)	LAMPHOL	15.00/each	_____	_____
<b>Lens paper</b> for cleaning microscopes	PAPLENS	7.00/booklet	_____	_____
<b>Light Source</b>	LIGHTSR	8.00/each	_____	_____
<b>Magnets</b>				
Steel bar 2 cm (Interactions, Magnets)	MAGNETI	5.00/each	_____	_____
Rubberized	MAGNETR	2.50/each	_____	_____
Ceramic 2.75"	MAGNBAR	12.00/each	_____	_____
Ceramic 3 cm" (Magnets, Electromagnetism)	MAGSMAL	2.50/each	_____	_____
Ceramic 1" disk (Magnets)	MAGDISK	2.25/each	_____	_____
<b>Masking tape</b>	TAPEMAS	5.00/roll	_____	_____
<b>Material pieces</b> - metal, wood, plastic, 1/2" x 2" x 1/8" (Properties)				
Aluminum	PIECEAL	1.00/each	_____	_____
Balsa	PIECEBA	0.75/each	_____	_____
Brass	PIECEBR	1.50/each	_____	_____
Clear acrylic	PIECEAC	1.50/each	_____	_____
Oak	PIECEOA	0.50/each	_____	_____
Opaque acrylic	PIECEAO	2.00/each	_____	_____
Pine	PIECEPI	1.00/each	_____	_____
Steel	PIECEST	1.25/each	_____	_____
Walnut	PIECEWA	1.25/each	_____	_____
<b>Measuring cups</b> , 8 oz..	CUPMEAS	10.00/each	_____	_____
<b>Medicine cup</b>	MEDICUP	7.50/pkg. of 100	_____	_____
<b>Metal angles</b> (Electromagnetism)	METANGL	2.00/each	_____	_____
<b>Metal brushes</b> (Electromagnetism)	METLBRU	20.00/30	_____	_____
<b>Modeling clay</b> (Buoyancy)	MODCLAY	7.50/box of 4 sticks	_____	_____
<b>Nails</b>				
4d common (Electromagnetism)	NAIL4DC	2.00/pkg. of 30	_____	_____
8d common (Meet the Creatures)	NAIL8DC	2.25/pkg. of 30	_____	_____
8d box	NAIL8DB	2.00/pkg. of 30	_____	_____
10d aluminum (Electromagnetism)	NAIL10A	5.00/pkg. of 10	_____	_____
10d common (Electromagnetism)	NAIL10D	4.50/pkg. of 30	_____	_____

**Subtotal** \$ \_\_\_\_\_

Transfer this Subtotal to page 26.

# Kit Parts

Part Name	Part Number	Price	Quantity	Total
<b>Pails</b>				
5 qt. Pail . . . . .	PAIL005 . . . . .	\$6.00/each	_____	_____
9 qt. Pail . . . . .	PAIL009 . . . . .	12.00/each	_____	_____
<b>Paper towels</b> , bundle . . . . .	TOWELPA . . . . .	5.00/pkg.	_____	_____
<b>Pattern blocks</b> , inc. 26 Problem Cards ( <i>Properties</i> )	PATRBLK . . . . .	65.00/set of 250	_____	_____
<b>Pattern Block Problem Cards</b> . . . . .	PATBLCD . . . . .	.700/set of 26	_____	_____
<b>Pencil</b> , wax . . . . .	PENCWAX . . . . .	2.00/each	_____	_____
<b>Petri dishes</b>				
Plastic 100 x 15 mm. . . . .	PETRIDI . . . . .	.1.75/each	_____	_____
Plastic 60 x 15 mm . . . . .	DIPETRI . . . . .	.1.75/each	_____	_____
<b>Pin box with lid</b> . . . . .	BOXCLPL . . . . .	3.00/each	_____	_____
<b>Plant growth light</b> . . . . .	PLGROLI . . . . .	45.00/each	_____	_____
<b>Pool</b> , plastic, gray, 29½" x 22½" x 6" ( <i>Waterplay, Crayfish</i> ) . . . . .	POOL001 . . . . .	53.00/each	_____	_____
<b>Potting Soil</b> , small bag 8 quart . . . . .	POTMIX1 . . . . .	15.00/bag	_____	_____
<b>Prisms</b> . . . . .	PRISMSL . . . . .	12.00/each	_____	_____
<b>Pulleys</b> , single . . . . .	PULLEYS . . . . .	12.00/each	_____	_____
<b>Resistance board</b> ( <i>Electrical Circuits</i> ). . . . .	PGBOARD . . . . .	12.25/each	_____	_____
<b>Rockets</b>				
Package of 30 model rocket kits . . . . .	ROCKETS . . . . .	190.00/pkg. of 30	_____	_____
Package of 15 model rocket kits . . . . .	ROCKETS . . . . .	120.00/pkg. of 15	_____	_____
<b>Rocket supplies</b>				
Engines, A83, 3/pkg. . . . .	ENGINEER . . . . .	10.00/pkg. of 3	_____	_____
Ignitors, 6/pkg. . . . .	IGNWIRE . . . . .	10.00/pkg. of 6	_____	_____
Wadding . . . . .	WADDING . . . . .	9.00/pkg.	_____	_____
<b>Rocks and Minerals specimens</b>				
Anthracite . . . . .	ROCANTH . . . . .	1.25/each	_____	_____
Biotite . . . . .	ROCBLOT . . . . .	2.25/each	_____	_____
Calcite . . . . .	ROCCALC . . . . .	1.25/each	_____	_____
Graphite . . . . .	ROCGRAP . . . . .	2.25/each	_____	_____
Gray Sandstone . . . . .	ROCSANG . . . . .	2.25/each	_____	_____
Halite. . . . .	ROCHALI . . . . .	2.50/each	_____	_____
Hematite . . . . .	ROCHEMA . . . . .	2.00/each	_____	_____
Kaolinite (Kaolin) . . . . .	ROCKAOL . . . . .	2.25/each	_____	_____
Limestone . . . . .	ROCLIME . . . . .	1.50/each	_____	_____

**Subtotal** \$ \_\_\_\_\_

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Transfer this Subtotal to page 26.

# Kit Parts

Part Name	Part Number	Price	Quantity	Total
Magnetite . . . . .	ROCMAGN . . . . .	\$1.50/each	_____	_____
Mystery Rock (Brown Calcite) . . . . .	ROCBRCA . . . . .	1.50/each	_____	_____
Mystery Rock alternate (Serpentine Marble) . . . . .	ROCSERP . . . . .	1.25/each	_____	_____
Obsidian . . . . .	ROCOBSI . . . . .	2.25/each	_____	_____
Pink Feldspar . . . . .	ROCFELP . . . . .	1.50/each	_____	_____
Pink Marble. . . . .	ROCMARP . . . . .	1.75/each	_____	_____
Pink Sandstone . . . . .	ROCSANP . . . . .	1.50/each	_____	_____
Pumice . . . . .	ROCPUMI . . . . .	2.00/each	_____	_____
Quartz . . . . .	ROCQUAR . . . . .	2.25/each	_____	_____
Shale . . . . .	ROCSHAL . . . . .	1.25/each	_____	_____
Slate . . . . .	ROCSLAT . . . . .	1.50/each	_____	_____
Talc. . . . .	ROCTALC . . . . .	1.50/each	_____	_____
White Feldspar . . . . .	ROCFELW . . . . .	2.00/each	_____	_____
White Marble. . . . .	ROCMARW . . . . .	1.50/each	_____	_____
<b>Rubberbands</b>				
#18 rubberbands . . . . .	RUBAN18 . . . . .	2.00/pkg. of 100	_____	_____
#33 rubberbands . . . . .	RUBAN33 . . . . .	5.00/pkg. of 100	_____	_____
#64 rubberbands . . . . .	RUBAN64 . . . . .	6.00/pkg. of 100	_____	_____
#82 rubberbands . . . . .	RUBAN82 . . . . .	8.00/pkg. of 100	_____	_____
Assorted rubberbands, colored in pin box . . . . .	BXCLRB . . . . .	5.00/each	_____	_____
<b>Ruler</b>				
6" (15 cm) . . . . .	RULER06 . . . . .	3.00/each	_____	_____
12" (30.4 cm) . . . . .	RULER12 . . . . .	2.25/each	_____	_____
<b>Screwdrivers</b>				
4½" screwdriver ( <i>Electrical Circuits</i> ) . . . . .	SCRWDRV . . . . .	5.00/each	_____	_____
7" screwdriver ( <i>Electromagnetism</i> ). . . . .	SCRWDR7 . . . . .	7.00/each	_____	_____
<b>Seeds</b>				
Bush beans . . . . .	PKGWAXB . . . . .	1.50/pkg. of 75	_____	_____
Coleus . . . . .	SEEDCOL . . . . .	2.00/pkg.	_____	_____
Corn . . . . .	PKGCORN . . . . .	1.50/pkg. of 75	_____	_____
Impatiens . . . . .	SEEDIMP . . . . .	2.00/pkg.	_____	_____
Lima beans . . . . .	PKGLIMA . . . . .	2.00/pkg. of 75	_____	_____
Marigold . . . . .	SEEDMAR . . . . .	2.00/pkg. of 200	_____	_____
Mung beans . . . . .	SEEDMGB . . . . .	2.00/pkg. of 1300	_____	_____
Mustard . . . . .	PKGMUST . . . . .	2.00/pkg. of 75	_____	_____
Nasturtium . . . . .	SEEDNAS . . . . .	2.00/pkg.	_____	_____
Oats . . . . .	PK300OA . . . . .	2.00/pkg. of 300	_____	_____
Pea. . . . .	PKGWPEA . . . . .	2.00/pkg. of 75	_____	_____
Petunia . . . . .	SEEDPET . . . . .	2.00/pkg.	_____	_____
Pole beans . . . . .	PKPOLEB . . . . .	2.00/pkg. of 75	_____	_____
Radish . . . . .	PKGRADI . . . . .	2.00/pkg. of 75	_____	_____

**Subtotal** \$ \_\_\_\_\_

Transfer this Subtotal to page 26.



# Kit Parts

Part Name	Part Number	Price	Quantity	Total
Rye grass . . . . .	PKGRYEG . . . . .	\$2.00/pkg. of 200	_____	_____
Squash . . . . .	PKGSQUA . . . . .	2.00/pkg. of 75	_____	_____
Sunflower. . . . .	PKGSUNF. . . . .	2.00/pkg. of 75	_____	_____
Tomato . . . . .	PKGTOMA . . . . .	2.00/pkg. of 75	_____	_____
<b>Slides, microscope</b>				
Standard slides . . . . .	SLIDEMS . . . . .	30.00/pkg. of 72	_____	_____
Depression slides . . . . .	SLIDEMD . . . . .	30.00/pkg. of 12	_____	_____
Cover slips, plastic . . . . .	SLIDECs . . . . .	10.00/pkg. of 100	_____	_____
<b>Sponge feeder stations</b> ( <i>Butterflies</i> ). . . . .	UREPLUG . . . . .	0.50/each	_____	_____
<b>Sponge block set</b> ( <i>Measuring</i> ). . . . .	SPNGBLK. . . . .	5.00/set	_____	_____
<b>Spools, 2" (Systems)</b> . . . . .	SPLWOOD . . . . .	2.50/each	_____	_____
<b>Spoons, plastic, specify color</b> . . . . .	SPOONPL . . . . .	0.50/each	_____	_____
<b>Spring scales</b> ( <i>Simple Machines</i> ) . . . . .	SCALEEC . . . . .	12.00/each	_____	_____
<b>Straws, 10" wrapped.</b> . . . . .	STRAW11 . . . . .	5.00/pkg. of 50	_____	_____
<b>Streak plates</b> . . . . .	STREAKP . . . . .	2.00/each	_____	_____
<b>Tangrams (Properties)</b>				
Pieces and cards . . . . .	TANGRCD . . . . .	20.00/set	_____	_____
Pieces only . . . . .	TANGRAM . . . . .	15.00/set of 10	_____	_____
Cards only . . . . .	TANGLCD . . . . .	5.00/set of 15	_____	_____
<b>T pins.</b> . . . . .	PIN000T . . . . .	12.50/pkg. of 100	_____	_____
<b>Tape measure</b> ( <i>Measuring, Simple Machines</i> ) . . . . .	TAPEMES . . . . .	7.00/each	_____	_____
<b>Teabags</b> ( <i>Interactions</i> ) . . . . .	TEABAGS . . . . .	0.50/each	_____	_____
<b>Thermometers, aluminum backed</b> . . . . .	THERMOM . . . . .	3.25/each (1-500) 2.25/each (500-999) 2.00/each (1000+)	_____ _____ _____	_____ _____ _____
<b>Trays</b>				
Black plastic ( <i>Mystery Matter</i> ) . . . . .	WORKTRA . . . . .	5.00/each	_____	_____
Plain, white, plastic, 12 3/4" x 9 1/4" ( <i>Properties</i> ) . . . . .	TRAYWHI . . . . .	3.00/each	_____	_____
Styrofoam ( <i>Systems</i> ) . . . . .	TRAYSTY . . . . .	0.50/each	_____	_____
<b>Tubing</b>				
Polyethylene ( <i>Looking at Liquids</i> ) . . . . .	TUB3002 . . . . .	2.00/for 30 ft.	_____	_____
Vinyl 3/8" diameter . . . . .	TUBVIN8 . . . . .	2.75/ft.	_____	_____
Vinyl 1/4" diameter . . . . .	TUBVIN4 . . . . .	2.00/ft.	_____	_____

**Subtotal** \$ \_\_\_\_\_

Photocopy the completed form and submit, or find additional forms at [www.espsciencetime.org](http://www.espsciencetime.org).

Transfer this Subtotal to page 26.



# Kit Parts

Part Name	Part Number	Price	Quantity	Total
<b>Tubes</b> ( <i>Sound</i> )				
Wide 18" x 7/8"	TUBC7/8	\$25.00/pkg. of 30	_____	_____
Narrow 18" x 1/2"	TUBC1/2	30.00/pkg. of 80	_____	_____
Plugs for above 1/2" tubes	PLUG1/2	7.00/pkg. of 100	_____	_____
<b>Tweezers</b>	TWEEZER	5.00/each	_____	_____
<b>Twine</b> , cotton ( <i>Sound</i> )	TWINE21	7.00/each	_____	_____
<b>Vials</b> ( <i>Measuring</i> )	VIAL1X4	1.00/each	_____	_____
<b>Washers</b>				
#4 washers ( <i>Crayfish, Looking at Liquids</i> )	WASHO#4	5.00/vial	_____	_____
1/2" washers ( <i>Measuring</i> )	WASH1/2	5.00/pkg. of 100	_____	_____
<b>Wire</b>				
#20 bare copper wire	WIREB20	35.00/lb.	_____	_____
#26 plastic insulated wire ( <i>Electromagnetism</i> )	WIREE26	37.50/lb.	_____	_____

Subtotal \$ \_\_\_\_\_

p. 19	Subtotal	\$ _____
p. 20	Subtotal	\$ _____
p. 21	Subtotal	\$ _____
p. 22	Subtotal	\$ _____
p. 23	Subtotal	\$ _____
p. 24	Subtotal	\$ _____
p. 25	Subtotal	\$ _____
p. 26	Subtotal	\$ _____
<b>Grand Total</b>		<b>\$ _____</b>



**Transfer Grand Total to Purchase Budget Worksheet page 33, Line 2.**

# Student Activity Books

## Student Activity Books

Astronomy . . . . .	\$10.00
Birds and Their Adaptations . . . . .	10.00
Buoyancy . . . . .	10.00
Butterflies . . . . .	10.00
Classroom Plants. . . . .	10.00
Crayfish . . . . .	10.00
Earthworms . . . . .	10.00
Electrical Circuits. . . . .	10.00
Electromagnetism Project Book . . . . .	10.00
Electromagnetism . . . . .	10.00
From Seed to Plant. . . . .	10.00
Magnets. . . . .	10.00
Measuring. . . . .	10.00
Mystery Matter . . . . .	10.00
Plant Responses . . . . .	10.00
Properties . . . . .	10.00
Rocketry. . . . .	10.00
Rocks and Minerals . . . . .	10.00
Senses. . . . .	10.00
Sky Calendar . . . . .	10.00
Systems & Simple Machines . . . . .	10.00



# Student Activity Books

## ESP Student Activity Books Order Form

---

You may use this form to order ESP Student Activity Books.

Description	Part Number	Unit Price	Quantity	Total

**Total \$** \_\_\_\_\_

Photocopy the completed form and submit, or find additional forms at [www.espsciencetime.org](http://www.espsciencetime.org).



# STEM Resources from ESP

## Design Challenge Activities

STEM is easily integrated into your grade 5-8 curriculum with the Elementary Science Program's **NEW** Design Challenge Activities.

### What is included in each Design Challenge?

- ◆ One challenge for the class to complete
- ◆ Overview and procedure for the challenge
- ◆ **ALL** the materials needed to complete the challenge
- ◆ An assessment of student work



### Design Challenge Activities Titles:

#1 - On Top of Spaghetti - Students work in groups to design a support structure for a marshmallow. The challenge is to design a support structure in 18 minutes using only the materials provided.

Cost for activity/materials - \$10.00\*

#2 - Boats and Floats - Students work in pairs to design floatation devices out of different materials (foil, wood and clay). The challenge is to design a boat or float, using only the materials provided, that will support the maximum load.

Cost for activity/materials - \$60.00\*

#3 - Oil Spill - Students work as a team of engineers contracted to first contain, and then clean up an oil spill off the coast of Puerto Rico with limited materials.

Cost for activity/materials - \$75.00\*

#4 - Straw Rockets - Students work in groups to design, test, and modify rockets constructed from straws. A reusable rocket launcher is included.

Cost for activity/materials - \$60.00\*

#5 - Solar Cooker - Students work in groups to design and build a solar cooker. Their challenge is to build a cooker that will maintain a temperature of 65° C for 20 minutes. This is the temperature and time needed to pasteurize water making it safe to drink. Included in the supplies is a silver colored vinyl material that provides a highly reflective surface.



Cost for activity/materials - \$75.00\*

\*Design Challenge Activities are available for purchase only.



www.telegraph.co.uk

### Each challenge is aligned to the NGSS:

**MS-ETS1-1:** Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.

**MS-ETS1-2:** Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.

**MS-ETS1-3:** Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.

Contact Gina at 585-617-2363 or 1-800-832-8011 or email at [gvaccare@monroe2boces.org](mailto:gvaccare@monroe2boces.org) for more information or to order your design challenges TODAY!

# Assessment Kits

*\* Testing materials sell out every year. Order early to avoid shortages at testing time.*

## Grade 4, Form A Science Test Kits and Replacement Parts

<b>COMPLETE KITS</b>		<b>PRICE</b>	<b>QUANTITY</b>	<b>TOTAL</b>	
Regular Kit for 30 Students . . . . .		\$375.00	_____	_____	
Mini Kit for 15 Students . . . . .		225.00	_____	_____	
<b>NYS RECOMMENDED KIT</b> (Balances and Gram Masses not included)					
Regular Kit for 30 Students . . . . .		215.00	_____	_____	
Mini Kit for 15 Students . . . . .		140.00	_____	_____	
<b>REPLACEMENT PARTS</b> (same as those in the original kit.)		<b>PART NUMBER</b>	<b>PRICE</b>	<b>QUANTITY</b>	<b>TOTAL</b>
<b>GENERAL SUPPLIES</b>					
Duct tape . . . . .	TAPDUCT . . . . .	\$7.00 roll	_____	_____	
Paper towels . . . . .	TOWELPA . . . . .	5.00 pkg.	_____	_____	
<b>STATION #1 – MEASURING OBJECTS AND LIQUIDS</b>					
Lined jar without lid labeled 1 . . . . .	JAR00#1 . . . . .	3.25 each	_____	_____	
Jar labeled 2, DO NOT OPEN . . . . .	JAR00#2 . . . . .	3.25 each	_____	_____	
Jar labeled 3, DO NOT OPEN . . . . .	JAR00#3 . . . . .	3.25 each	_____	_____	
Lids for jars . . . . .	LID58MM . . . . .	0.25 each	_____	_____	
Set of Gram Masses . . . . .	WGHTSET . . . . .	19.00 set	_____	_____	
Graduated beaker (100 ml). . . . .	BEAK100 . . . . .	2.50 each	_____	_____	
Plastic cup labeled WATER . . . . .	CUPP-12 . . . . .	0.50 each	_____	_____	
Medicine cup (30 ml). . . . .	MEDICUP . . . . .	0.10 each	_____	_____	
Ruler (30 cm) with metric and standard units . . . . .	RULER12 . . . . .	2.25 each	_____	_____	
Rock. . . . .	ROCSANP . . . . .	1.50 each	_____	_____	
Double pan balance . . . . .	LGEBALS . . . . .	25.00 each	_____	_____	
<b>STATION #2 – TESTING AND SORTING OBJECTS</b>					
"D" cell battery. . . . .	BATTOOD . . . . .	1.00 each	_____	_____	
#82 rubber band. . . . .	RUBAN82 . . . . .	0.10 each	_____	_____	
Fahnestock clip. . . . .	FANCLIP . . . . .	0.50 each	_____	_____	
Bulb holder . . . . .	BULBHOL . . . . .	1.50 each	_____	_____	
#48 bulb . . . . .	BULB/48 . . . . .	1.50 each	_____	_____	
Insulated wire . . . . .	WIREI20 . . . . .	1.00 each	_____	_____	
Insulated wire with alligator clip . . . . .	ALLCLIP . . . . .	2.00 each	_____	_____	
Bar magnet . . . . .	MAGNBAR . . . . .	12.00 each	_____	_____	
Plastic bag labeled TEST OBJECTS. . . . .	LABTOBJ . . . . .	0.10 each	_____	_____	
10 paper clips . . . . .	PAPCLIP . . . . .	0.10 each	_____	_____	
Plastic spoon . . . . .	SPONRED . . . . .	0.50 each	_____	_____	
Tongue depressor. . . . .	TONGUED . . . . .	0.05 each	_____	_____	
Aluminum foil square . . . . .	ALUFOSQ . . . . .	0.10 each	_____	_____	
Colored ceramic disk magnet . . . . .	MAGDISK . . . . .	2.25 each	_____	_____	
<b>STATION #3 - BALL AND RAMP</b>					
Deli container with dot . . . . .	CONCP16 . . . . .	0.50 each	_____	_____	
Wood block . . . . .	BLOC6X6 . . . . .	2.00 each	_____	_____	
Ruler (30 cm). . . . .	RULER12 . . . . .	2.25 each	_____	_____	
Golf ball . . . . .	GOLFBAL . . . . .	1.50 each	_____	_____	
Plastic bag labeled GOLF BALL . . . . .	LABGBAL . . . . .	0.10 each	_____	_____	
Plastic bag labeled PING PONG BALL . . . . .	LABPBAL . . . . .	0.10 each	_____	_____	
Ping pong ball . . . . .	PINGBAL . . . . .	0.75 each	_____	_____	
Place mat . . . . .	GAMEMAT . . . . .	1.50 each	_____	_____	
Carpet tape . . . . .	TAPECAR . . . . .	7.00 roll	_____	_____	

# Assessment Kits

*\* Testing materials sell out every year. Order early to avoid shortages at testing time.*

## Grade 8, Form A Performance Test Kits

COMPLETE KIT	PRICE	QUANTITY	TOTAL
Regular Kit for 30 Students . . . . .	\$275.00	_____	_____
Mini Kit for 15 Students . . . . .	150.00	_____	_____

REPLACEMENT PARTS <i>(same as those in the original kit.)</i>	PART NUMBER	PRICE	QUANTITY	TOTAL
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### GENERAL SUPPLIES

Duct tape . . . . .	TAPDUCT . . . . .	\$ 7.00 roll	_____	_____
Masking tape . . . . .	TAPEMAS . . . . .	5.00 roll	_____	_____

### STATION 1: SORTING CREATURES

Red plastic centipedes . . . . .	INSECTU . . . . .	0.50 each	_____	_____
Black/green plastic fly . . . . .	INSECTU . . . . .	0.50 each	_____	_____
Green/blue plastic dragon fly . . . . .	INSECTU . . . . .	0.50 each	_____	_____
Red/black plastic ant . . . . .	INSECTU . . . . .	0.50 each	_____	_____
Brown/black plastic spider . . . . .	INSECTU . . . . .	0.50 each	_____	_____
Black/brown plastic bristle tail. (please list which insect when ordering)	INSECTU . . . . .	0.50 each	_____	_____
Sorting chart . . . . .	CHARSOR. . . . .	1.50 each	_____	_____
Plastic bag labeled CREATURES . . . . .	LABCREA . . . . .	0.10 each	_____	_____
10 index cards . . . . .	CARDIND . . . . .	0.50 set	_____	_____
Slide A (mm grid). . . . .	SLIDEOA . . . . .	3.75 each	_____	_____
Slide X (drosophila). . . . .	SLIDEDR. . . . .	5.00 each	_____	_____

### STATION 2: RAMP AND GOLF BALL

Support blocks . . . . .	BLOC6X6 . . . . .	2.00 each	_____	_____
Golf ball . . . . .	GOLFBAL . . . . .	1.50 each	_____	_____
Deli container (cut out) . . . . .	CONCP16 . . . . .	0.50 each	_____	_____
Ramp placemats . . . . .	PLACMAT . . . . .	1.50 each	_____	_____
5 Gram mass . . . . .	WGHTSET. . . . .	1.00 each	_____	_____
Ruler. . . . .	RULER12 . . . . .	2.25 each	_____	_____
Carpet tape . . . . .	TAPCAR . . . . .	7.00 roll	_____	_____
Plastic bag labeled GOLF BALL . . . . .	LABGBAL . . . . .	0.10 each	_____	_____
Ping pong ball . . . . .	PINGBAL . . . . .	0.75 each	_____	_____
Plastic bag labeled PING PONG BALL . . . . .	LABPBAL . . . . .	0.10 each	_____	_____

### STATION 3: WOODS AND WATER

Ruler. . . . .	RULER12 . . . . .	2.25 each	_____	_____
Block A . . . . .	D/BLOCK . . . . .	0.75 each	_____	_____
Block B . . . . .	BLOCKWD . . . . .	3.00 each	_____	_____
Plastic bag labeled BLOCK A . . . . .	BLOCKAL . . . . .	0.10 each	_____	_____
DO NOT OPEN label. . . . .	LABOPEN . . . . .	0.10 each	_____	_____
Plastic cup . . . . .	CONCP09 . . . . .	0.50 each	_____	_____

**Subtotal** \$ \_\_\_\_\_

**Note:** Schools will need to provide microscopes, calculators, and triple beam balances.

Transfer this Subtotal to page 32.



# Assessment Kits

*\* Testing materials sell out every year. Order early to avoid shortages at testing time.*

## Grade 8, Test Sampler Kits and Replacement Parts

COMPLETE KIT	PRICE	QUANTITY	TOTAL
Regular Kit for 30 Students . . . . .	\$300.00	_____	_____
Mini Kit for 15 Students . . . . .	185.00	_____	_____

REPLACEMENT PARTS <i>(same as those in the original kit.)</i>	PART NUMBER	PRICE	QUANTITY	TOTAL
---	-------------	-------	----------	-------

**GENERAL SUPPLIES**

Duct tape . . . . .	TAPDUCT . . . . .	\$ 7.00 roll	_____	_____
Masking tape . . . . .	TAPEMAS . . . . .	5.00 roll	_____	_____

**STATION A: EXPERIMENTING WITH A BALL AND RAMP**

Support blocks . . . . .	BLOC6X6 . . . . .	2.00 each	_____	_____
Golf ball . . . . .	GOLFBAL . . . . .	1.50 each	_____	_____
Deli container (cut out) . . . . .	CONCP16 . . . . .	0.50 each	_____	_____
Ramp placemats . . . . .	PLACMAT . . . . .	1.50 each	_____	_____
5 Gram Mass . . . . .	WGHTSET . . . . .	1.00 each	_____	_____
Ruler . . . . .	RULER12 . . . . .	2.25 each	_____	_____
Carpet tape . . . . .	TAPECAR . . . . .	7.00 roll	_____	_____
Plastic bag labeled GOLF BALL . . . . .	LABGBAL . . . . .	0.10 each	_____	_____

**STATION B: SOAPS AND WATER**

Neutrogena soap . . . . .	SOAPNEU . . . . .	5.00 each	_____	_____
Ivory soap . . . . .	SOAPIVO . . . . .	2.00 each	_____	_____
Rubber ball . . . . .	SUPERBL . . . . .	0.50 each	_____	_____
Styrofoam ball . . . . .	BAL0001 . . . . .	0.50 each	_____	_____
Paper towels . . . . .	TOWELPA . . . . .	5.00 pkg.	_____	_____
Plastic cup labeled WATER . . . . .	CONCP09 . . . . .	0.50 each	_____	_____
Plastic bag labeled BAG OF BALLS . . . . .	BAGBALLS . . . . .	0.25 each	_____	_____
10 Plastic bags with labels SOAPA1-SOAPA10 . . . . .	SOAPOA1 . . . . .	1.50 set	_____	_____
10 Plastic bags with labels SOAPB1-SOAPB10 . . . . .	SOAPOB1 . . . . .	1.50 set	_____	_____
10 DO NOT OPEN labels . . . . .	LABOPEN . . . . .	1.00 set	_____	_____
Ruler . . . . .	RULER12 . . . . .	2.25 each	_____	_____

**STATION C: CELL SIZE**

10 Index cards . . . . .	CARDIND . . . . .	0.50 set	_____	_____
Slide A (mm grid) . . . . .	SLIDEOA . . . . .	3.75 each	_____	_____
Slide B (Allium epidermis) . . . . .	SLIDEOB . . . . .	5.00 each	_____	_____
Slide C (Frog blood) . . . . .	SLIDEOC . . . . .	5.00 each	_____	_____

**p. 30 Subtotal \$** \_\_\_\_\_

**p. 31 Subtotal \$** \_\_\_\_\_

**p. 32 Subtotal \$** \_\_\_\_\_

**Grand Total \$** \_\_\_\_\_

Photocopy the completed form and submit, or find additional forms at [www.espsciencetime.org](http://www.espsciencetime.org).



# Purchase Worksheet

## Purchase Worksheet

BOCES \_\_\_\_\_

District \_\_\_\_\_

Contact Name \_\_\_\_\_

Address \_\_\_\_\_

Phone ( \_\_\_\_\_ ) \_\_\_\_\_ FAX ( \_\_\_\_\_ ) \_\_\_\_\_ Email \_\_\_\_\_

Please transfer the dollar amounts from the order forms to the correct line below. To determine your shipping charges:

- If using a purchase order or pre-payment with school check, shipping is 13% of the total items, with a minimum shipping charge of \$5.00.
- If adding to your cross-contract or contract (for subscribing districts only), leave the shipping amount and Adm. Charge blank. Shipping will be calculated at the cross-contract or contract rate.

There is a minimum total of \$25.00 on all purchase orders.

Please send all appropriate order forms with your request.

The 5.2% Administrative Charge is applicable to all purchase sub-totals.

Please check the appropriate box below:

- Purchase Order/School Check attached
- Add to Cross-contract/Contract. Authorized Signature \_\_\_\_\_

For additional forms, go to  
[www.espsciencetime.org](http://www.espsciencetime.org).

Photocopy the completed form  
 and please mail or fax to:

Monroe 2–Orleans BOCES  
 Elementary Science Program  
 38 Turner Drive  
 Spencerport, NY 14559

Fax #: 585-352-1157

LINE 1	Refill Packages/Live Materials	_____
2	Kit parts	_____
3	Student Activity Books	_____
4	Assessment Kits/Parts	_____
	<b>Sub Total</b>	_____
	Indirect Cost 5.2%	+ _____
	Shipping 13% (minimum \$5.00)	+ _____
	<b>Total Purchase</b>	\$ _____

# Policies

## Return Policy

---

Due to the cost of shipping and restocking of items returned, all sales of kits, kit parts and publications are final. If you are uncertain about a particular item, please call the ESP at 1-800-832-8011 for additional information. We will be happy to advise you.

## Pricing

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Due to the volatility of the wholesale prices on certain items, our prices are subject to change without notice. When placing an order for large quantities of materials, please call for current pricing.

## Live Materials Policy

---

The ESP makes all attempts to package and ship live materials so that they arrive healthy. Because factors such as weather, shipping delays or improper handling are not within our control, we do not make refunds for live materials. Upon request, and when sufficient quantities allow, we will replace and reship live materials at no additional cost.

## Inventory Policy

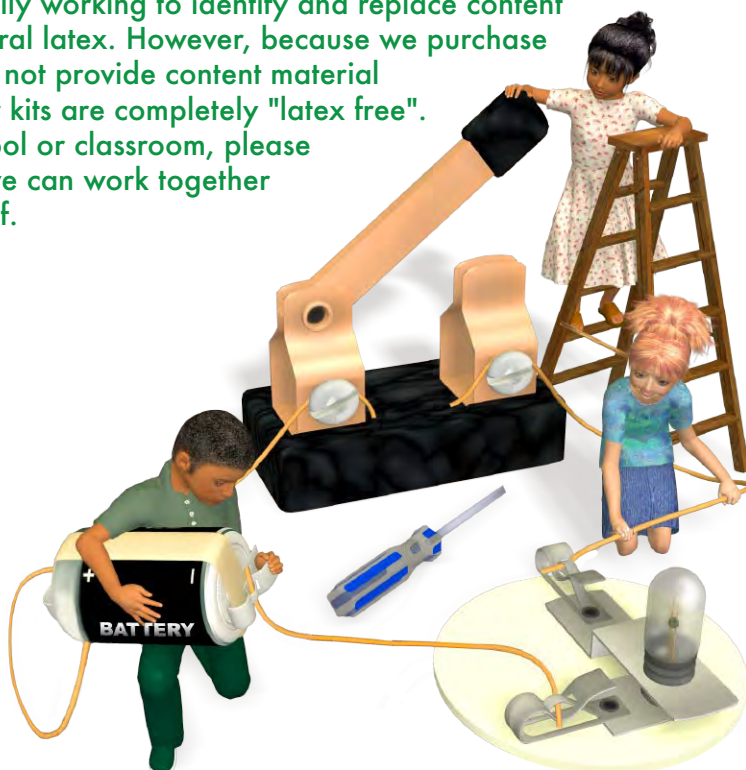
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Please inventory your materials upon arrival! Any missing/damaged parts must be reported to the ESP within 2 weeks of UPS delivery date.

## Latex Policy

---

The Elementary Science Program is continually working to identify and replace content items in our kits that potentially contain natural latex. However, because we purchase materials from many vendors, some who do not provide content material information, we are unable to claim that our kits are completely "latex free". If a latex allergy is of concern to your school or classroom, please contact us directly before ordering so that we can work together to insure the safety of your students and staff.





# Elementary Science Program

Monroe 2–Orleans Board of Cooperative Educational Services

38 Turner Drive  
Spencerport, NY 14559

[www.espsciencetime.org](http://www.espsciencetime.org)

11/18



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