

Scott Foresman
SCIENCE

Grade K
Equipment Kit
Guide

Unit D
Human Body

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Equipment Kits and Teacher's Guide

Equipment Kit Management

About Your Kits

The equipment in *Scott Foresman Science* is packaged in sturdy plastic bins for your convenience. The quantities included support eight groups of four students each.

Unit Kit/ Grade Level Kit

The Unit Kit contains most of the items you will need to conduct hands-on activities with your students. Equipment for each unit is contained in one or two bins. The Unit Kit is designed to be purchased separately. Each bin is clearly labeled with the grade level, bin number, unit name, and contents. A label inside the lid of each bin references the materials by activity. Only activities requiring kit items are listed.

Unit Kits are also available in a Grade Level Kit configuration. In this format, a common bin eliminates items duplicated across the units for cost savings and convenience.

Demonstration Kit

The Demonstration Kit gives teachers the opportunity to rehearse activities before conducting them in the classroom. Kit-provided materials for each activity are pre-packaged and labeled for easy identification. When used in conjunction with the activity videos, the demonstration kits make it easy to prepare and conduct all investigations and experiments.

Storage of the Kits

Your equipment is packaged in sturdy, translucent plastic bins and labeled for easy storage and access. Bins may be stacked or stored on shelves or carts. Bins are labeled on all sides for quick identification and location of items. This provides convenient organization of materials before and after use.

Replacement Materials

Use the Packing List/Replacement Parts Price List to reorder items as needed for the Unit Kit or Grade Level Kit. These order forms are packed in the plastic bins and can be photocopied. Each list provides a column for entering the quantities of items you need to replace. Materials are organized alphabetically and identified as consumable or nonconsumable.

Complete consumable Replacement Kits are available as well. These kits replenish all the consumable materials for each Unit Kit or Grade Level Kit.

Using the Teacher's Guide

This guide will help you better prepare to conduct the program activities in your classroom. Reviewing the guide while practicing with the activity video and demonstration kit or simply reading the guide upon receiving your classroom kit will make it easy to facilitate an activity with your students.

Getting Started

Familiarize yourself with the kit contents. To make sure your shipment is complete, check the packing statement provided with your kit.

Activity Notes

The Activity Notes in this guide provide comprehensive information to make your activity sessions a success. This information may include:

Video Segment

The video segment number is indicated to help you cue the tape to each Investigate and Experiment activity.

Materials

A materials list for each activity identifies kit-supplied and school-supplied materials. Use this list as a check of your kit contents and as a list for class preparation.

Material Substitutions

For increased flexibility, material substitutions, when appropriate, are indicated.

Advance Prep

These instructions offer preparation guidance as necessary. With these suggestions, you will always be well prepared to conduct activities in your class.

Hints and Tips

Detailed hints and tips help to ensure student success in the classroom. Notes range from how to enhance students' success to increasing your understanding of activity concepts.

Safety Notes

While safety should be practiced at all times for each activity, it may be necessary to consider specific activity concerns. These notes give activity-specific safety tips.

Additional Comments

This section provides extension ideas, alternate activities, and other helpful information.

Observe with the sense of sight.

Explore Activity (D7)

Materials (per group)

Kit Items	School-Supplied Items
hand lens	small objects of different shapes, sizes, and colors

Hints and Tips

Make sure children know how to use a hand lens. They should understand that it is used to magnify things the unaided eye may not see.

Explore the sense of hearing.

Explore Activity (D7)

Materials (per group)

Kit Items	School-Supplied Items
none	objects to make sounds drawing paper crayons

Advance Prep

Objects should make sounds that are distinct enough for children to be able to distinguish.

Hints and Tips

Allowing children to look at the sound-making objects before closing their eyes may help them guess which object is making the sound.

Additional Comments

Make a mystery sound audiotape. You could include different environmental sounds such as the ocean, the woods, rain, and so on. Have children guess what the sounds are.

Explore the sense of sight.

Science Center Activity (D7a)

Materials (per group)

Kit Items	School-Supplied Items
plastic pail	beanbag chart for recording data

Hints and Tips

Use masking tape to mark where children should stand and where the pail should be placed. This will help maintain consistency across trials.

Additional Comments

Another way to help children explore the importance of sight is by playing the game Pin the Tail on the Donkey.

Explore the sense of smell.

Explore Activity (D9)

Materials (per group)

Kit Items	School-Supplied Items
paper cups, 3 oz paper plate aluminum foil	small piece of cloth objects with scent such as an apple, mint leaves, perfume, soap (bar), and a banana

Material Substitutions

Feel free to use other items with a distinctive odor.

Advance Prep

Make scent jars by placing a small sample of each scented object in a 3 oz cup and covering it with perforated aluminum foil. Saturate the small cloth with perfume.

Safety Note

Do not allow children to taste the food samples.

Additional Comments

As a language arts connection, invite children to tell or dictate what certain smells remind them of.

Explore the sense of taste.

Explore Activity (D9)

Materials (per group)

Kit Items	School-Supplied Items
none	pictures of foods cut from old magazines

Advance Prep

Provide children with an array of food-oriented magazines, advertisements (grocery stores or restaurants), and catalogs.

Explore apples.

Science Center Activity (D9a)

Materials (per group)

Kit Items	School-Supplied Items
paper plate	variety of apples tape recorder

Advance Prep

Get a variety of apples with different characteristics. Some examples are Granny Smith, Macintosh, Jonathan, Ida Red, Winesap, and Delicious.

Additional Comments

A cooking extension for this activity would incorporate the senses of both taste and smell.

Explore the sense of touch.

Explore Activity (D11)

Materials (per group)

Kit Items	School-Supplied Items
none	paper bags classroom objects with various textures drawing paper crayons

Advance Prep

Prepare “feely bags” with objects of different textures for children to feel. Place each material in a separate paper bag and provide several bags for each group of children.

Safety Note

Be sure objects in the bags do not have sharp edges or rough surfaces that may injure children’s hands.

Classify objects by texture.

Explore Activity (D11)

Materials (per group)

Kit Items	School-Supplied Items
cotton cloth fur cloth vinyl cloth wool cloth	chart paper

Material Substitutions

Any type of cloth with a distinct texture can be used.

Advance Prep

Cut fabric into swatches and distribute to each group or child.

Explore textures.

Science Center Activity (D11a)

Materials (per group)

Kit Items	School-Supplied Items
none	4 objects with 4 different textures (soft, hard, rough, smooth) 4 paper bags tape recorder

Advance Prep

Label the four paper bags with the numbers 1–4. Put one object in each bag.

Hints and Tips

Each object should represent one of the four textures, for example: rough (sandpaper), soft (cotton balls), hard (interlocking plastic gram cubes), smooth (marker).

Identify parts of the body.

Explore Activity (D17)

Materials (per group)

Kit Items	School-Supplied Items
none	drawing paper crayons

Material Substitutions

The accompanying Flip Chart page or pictures of people from other sources can be used to point out body parts.

Identify the functions of body parts.

Explore Activity (D17)

Materials (per group)

Kit Items	School-Supplied Items
none	drawing paper glue old magazines scissors

Advance Prep

Provide magazines with pictures of individuals engaged in sports. Some resources include general sports magazines, sport-specific magazines, and children's sports magazines.

Additional Comments

Take pictures of children with a camera. Create a motion album of pictures and dictation.

Explore balance and body parts.

Science Center Activity (D17a)

Materials (per group)

Kit Items	School-Supplied Items
hourglass sand timer (one minute) plastic egg spoon	book unsharpened pencil

Hints and Tips

- Show children how long a minute is by allowing them to view the timer before making predictions.
- Make sure children have enough room to perform the physical tasks required in this activity.

Observe childhood changes.

Explore Activity (D19)

Materials (per group)

Kit Items	School-Supplied Items
none	glue drawing paper baby picture recent picture crayons

Advance Prep

Send a note home requesting children's baby and recent photos. Specify a date for the pictures to be received. Be sure to ask that all pictures be labeled so that they can be returned.

Identify the three stages of life.

Explore Activity (D19)

Materials (per group)

Kit Items	School-Supplied Items
none	crayons 3 index cards old magazines scissors

Advance Prep

Number the index cards 1–3 in advance.

Hints and Tips

Use magazines with pictures of life stages to give children a guide to use when drawing the three stages of life on their index cards.

Explore teeth.

Science Center Activity (D19a)

Materials (per group)

Kit Items	School-Supplied Items
paper plate 2 plastic cups, 10 oz	cola water white eggshells strainer pan

Advance Prep

Soak eggshells in a solution of bleach and water to disinfect them. Break the eggshells in half and put them on plates for children to use.

Hints and Tips

Be sure children pour equal amounts of cola and water into each plastic cup.

Safety Note

Do not allow children to drink the cola or water used in this activity.

Explore alike and different.

Explore Activity (D21)

Materials (per group)

Kit Items	School-Supplied Items
none	tempera paints drawing paper

Hints and Tips

Children should use different colors of tempera paints to layer their handprints.

Observe same and different interests.

Explore Activity (D21)

Materials (per group)

Kit Items	School-Supplied Items
none	self-stick notes paint chart paper

Hints and Tips

Have children list their favorite playground activities. Use these words as column heads for the class chart.

Explore fingerprints.

Science Center Activity (D21a)

Materials (per group)

Kit Items	School-Supplied Items
hand lens fingerprint cards (set of 3)	ink pad paper

Hints and Tips

Keep the classroom set of fingerprint cards on display at a table or desk. Children may compare their prints with the cards.

Safety Note

Remind children to wash their hands immediately after using the ink pad.

Identify the need for exercise.

Explore Activity (D27)

Materials (per group)

Kit Items	School-Supplied Items
none	blocks or cardboard boxes (cubes) crayons drawing paper

Advance Prep

Make exercise cubes by writing words and taping illustrations from the chart to the sides of large blocks or cardboard boxes. There should be a different activity on each side of each cube.

Hints and Tips

Children should have enough space to perform the exercise routines they create.

Additional Comments

Encourage children to observe what happens to their bodies as they exercise (increased heartbeat, flushed face, sweat, warm feeling, etc.)

Identify the need for rest.

Explore Activity (D27)

Materials (per group)

Kit Items	School-Supplied Items
none	paper crayons or markers

Hints and Tips

Have children extend their arms straight in front of them for about two minutes. This should be enough time for them to feel their muscles getting tired.

Explore heartbeat.

Science Center Activity (D27a)

Materials (per group)

Kit Items	School-Supplied Items
hourglass sand timer (one minute)	paper towel tube tape recorder

Advance Prep

- Demonstrate how to use a one-minute hourglass timer.
- Be sure children know how to use the paper towel tube to listen to their partner's heartbeat.

Explore the Food Guide Pyramid.

Explore Activity (D29)

Materials (per group)

Kit Items	School-Supplied Items
none	old magazines glue variety of cardboard boxes drawing paper scissors crayons

Advance Prep

Prepare the cardboard boxes in advance by labeling each with the name of a food group.

Hints and Tips

Display the Flip Chart or other photo of the Food Guide Pyramid to help guide children as they cut out magazine pictures of food groups.

Choose healthful foods.

Explore Activity (D29)

Materials (per group)

Kit Items	School-Supplied Items
none	pictures of foods marker

Advance Prep

Gather pictures of different foods for children to use. These can come from a variety of sources such as cooking magazines, food catalogs, supermarket advertisements, and so on.

Explore healthful foods.

Science Center Activity (D29a)

Materials (per group)

Kit Items	School-Supplied Items
balance hand lens	variety of healthful foods knife (for teacher use)

Material Substitutions

Any healthful foods (apples, carrots, celery) will work for this activity.

Advance Prep

Cut each healthful food in half so that children can examine the inside.

Experiment with foods.

Experiment Activity (D30–D31)

Video Segment 4

Materials (per group)

Kit Items	School-Supplied Items
spoon	butter or margarine cheese spread brown paper bags paper towels apple slice dry cereal

Material Substitutions

A variety of high fat and low fat foods can be used in this activity.

Safety Note

Do not allow children to eat the foods they are testing.

Identify ways to keep clean.

Explore Activity (D33)

Materials (per group)

Kit Items	School-Supplied Items
2 pails fine sand	crackers water soap

Advance Prep

Fill one pail with sand and the other with water.

Hints and Tips

Observe carefully as children wash their hands. You may wish to work individually with those who need assistance following the proper hand-washing techniques.

Safety Note

Caution children not to eat the crackers.

Identify tools for good health.

Explore Activity (D33)

Materials (per group)

Kit Items	School-Supplied Items
none	paper towel health-care tools

Advance Prep

Gather a small selection of health-care tools such as soap, nailbrush, toothbrush, toothpaste, dental floss, shampoo, and comb. Small travel-sized items may be convenient.

Additional Comments

Ask children to describe their morning and afternoon regimens involving health-care tools.

Explore dirty hands.

Science Center Activity (D33a)

Materials (per group)

Kit Items	School-Supplied Items
plastic resealable bags potting soil hand lens	white bread

Advance Prep

Cut bread slices in half and distribute to each child.

Safety Note

Be sure children wash their hands with soap and water upon completing the activity.