

Scott Foresman
SCIENCE

Grade 6

**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.

Exploring Reaction Time

Explore Activity (D6)

Materials (per group)

Kit Items	School-Supplied Items
half-meter stick	none

Safety Note

Remind students to handle the half-meter stick carefully. Because it is large, students might inadvertently touch others with it.

Investigating Vision

Investigate Activity (D18–D19)

Video Segment 1

Materials (per group)

Kit Items	School-Supplied Items
plastic cup, 10 oz pinto bean seeds	metric ruler

Hints and Tips

- Allow students to choose the eye they will cover. Encourage students to close one eye as well as cover it to improve the vision of the uncovered eye. Instruct the partners dropping the beans to make sure that their partner has given the “yes” signal before they drop the bean.
- If time permits, allow students to trade roles and repeat the activity.

Safety Note

Instruct students to cover their eyes lightly and not to press on their eyes.

Testing Temperature Sensors

Experiment Activity (D27DD29)

Video Segment 2

Materials (per group)

Kit Items	School-Supplied Items
3 plastic graduated cups, 10 oz masking tape	marker room-temperature water (250 mL) warm water (250 mL) ice water (250 mL) clock with a second hand paper towels

Advance Prep

Allow water to stand for several hours until it is at room temperature.

Safety Notes

Have students wash their hands before this activity. Students with open sores, circulation problems, diabetes, or other medical conditions affecting the hands should not participate in the experimental phase of this activity.

Exploring Healthful Habits

Explore Activity (D34)

Materials (per group)

Kit Items	School-Supplied Items
none	magazines and newspapers scissors

Material Substitutions

This activity could be adapted to include observations of advertisements on television.

Observing Particle Distribution

Investigate Activity (D42–D43)

Video Segment 3

Materials (per group)

Kit Items	School-Supplied Items
plastic dispensing bottle funnel cornstarch plastic spoon plastic stirrer	safety goggles newspaper shoe box (with hole in the bottom) and lid black construction paper scissors masking tape

Advance Prep

Use a pencil to make a small hole in the bottom of a shoe box. The hole should be about the size of the tip of the dispensing bottle.

Hints and Tips

Make certain that students step well back from the box as the unconfined cloud of cornstarch rises from the shoe box.

Safety Note

Remind students not to inhale the cornstarch particles.