

**Scott Foresman**  
**SCIENCE**

**Grade 2**  
**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.

## Play a catching game.

*Explore Activity (D7)*

### Materials (per group)

Kit Items	School-Supplied Items
none	metric ruler

### Hints and Tips

Demonstrate the activity first with a volunteer.

### Safety Note

Be sure that children exercise caution when dropping the rulers.

## How long can you blow bubbles?

*Investigate Activity (D12–D13)*

### Video Segment 1

### Materials (per group)

Kit Items	School-Supplied Items
plastic cup, 9 oz straw	water clock with a second hand

### Hints and Tips

- Fill cups half full with water and blow slowly so bubbles will not overflow.
- Children should leave enough space between the end of the straw and the bottom of the cup to allow air to go into the water.

### Safety Note

Remind children not to inhale while using the straws. Do not allow children to share straws.

## Experiment with exercise.

*Experiment Activity (D14–D15)*

### Video Segment 2

#### Materials (per group)

Kit Items	School-Supplied Items
none	clock with a second hand

#### Advance Prep

Clear enough space for children to do exercises.

#### Hints and Tips

Practice taking a pulse before beginning the activity. Demonstrate how to do this by placing a forefinger and middle finger on the inside of the wrist or under the jaw.

#### Safety Note

Children with health concerns (asthma, heart conditions) should not participate in this activity.

## Play a brain game.

*Science Center Activity (D15a)*

#### Materials (per group)

Kit Items	School-Supplied Items
none	none

#### Hints and Tips

Children can work in pairs or this game can be conducted as a whole-class activity.

## Make a Food Guide Pyramid.

*Explore Activity (D23)*

### Materials (per group)

Kit Items	School-Supplied Items
none	scissors glue large piece of paper magazines or newspapers (for pictures of food)

### Advance Prep

Gather magazines and newspapers with a variety of food pictures. Some possibilities are cooking magazines, gardening magazines, newspaper food sections, and supermarket advertisements. Invite children to bring in some sources for pictures.

### Hints and Tips

Mention to the class that some foods are included in several food groups. For example, a tuna fish sandwich would be included in the fish, bread, and oil groups.

## Which foods will leave a greasy spot?

*Investigate Activity (D24–D25)*

### Video Segment 3

### Materials (per group)

Kit Items	School-Supplied Items
none	marker butter carrot snack foods brown paper bag

### Material Substitutions

Various foods or snacks can be used in the test. Be sure some are low in fat and some are high in fat.

### Advance Prep

- Cut paper bags into large rectangular pieces one layer thick.
- Provide two snack food samples or a wide variety of foods so children can choose what they wish to test.

### Safety Note

Do not allow tasting of the food being tested.

## Play Healthful Foods Bingo.

*Science Center Activity (D25a)*

### Materials (per group)

Kit Items	School-Supplied Items
none	paper pencil crayons markers such as beans or paper squares

### Hints and Tips

Help children make a bingo card with foods from the different food groups. They may draw a picture of the food or write the name of the food.

## Observe how food can be changed.

*Explore Activity (D27)*

### Materials (per group)

Kit Items	School-Supplied Items
plastic resealable bags	water soda crackers

### Material Substitutions

Any type of cracker can be used in this activity.

### Hints and Tips

Do not fill the bags more than half full with water.

## Measure the small intestine.

*Science Center Activity (D29a)*

### Materials (per group)

Kit Items	School-Supplied Items
yarn	meter stick

### Hints and Tips

Demonstrate how to use a meter stick before conducting this activity.

## Do exercises.

*Explore Activity (D35)*

### Materials (per group)

Kit Items	School-Supplied Items
none	clock with a second hand or stopwatch

### Advance Prep

Allow enough space for children to do jumping jacks.

### Safety Note

Children with serious health conditions should not participate in this activity.

# How much exercise do you get?

*Investigate Activity (D38–D39)*

## Video Segment 4

### Materials (per group)

Kit Items	School-Supplied Items
none	pencil or crayons blank calendar

### Material Substitutions

Photocopy a blank calendar or have children draw their own.

### Hints and Tips

- As a class, think of the various ways to get exercise and invite groups of children to discuss their ideas.
- Set aside a few minutes each day for children to make entries on their calendars.

### Safety Note

Children with health problems should consult their doctors for recommendations of exercises they can do.

## Stay fit.

*Science Center Activity (D39a)*

### Materials (per group)

Kit Items	School-Supplied Items
none	paper pencil crayons tape markers

### Advance Prep

Prepare a class chart ahead of time. You may wish to label it with the headings “Stretch” and “Exercise.”

### Safety Note

Children should stretch properly before they start exercising.

### Additional Comments

Organize children’s suggestions. As a class, go through and perform the stretching measurements and then the exercise suggestions.

## **Make a diorama.**

*Science Center Activity (D43a)*

### **Materials (per group)**

<b>Kit Items</b>	<b>School-Supplied Items</b>
none	shoe box construction paper glue scissors magazines art supplies

### **Advance Prep**

Provide a variety of materials to help children build their dioramas.

### **Hints and Tips**

Let children brainstorm ways to keep their bodies clean.

### **Safety Note**

Tell children how to use scissors properly.