

PREPARING FOR THE ACTIVITIES—QUARTER 3

CLASSROOM MANAGEMENT

Materials

You may want to familiarize yourself with the materials used in this quarter before beginning the activities. We suggest that you refer to the Quarter 3 Materials List on page 241 of this guide as you review the materials in the drawers of the kit. (The contents of each drawer are listed on the drawer labels.)

Before beginning each activity, review the Materials list and the Preparation required for the activity. The Materials list indicates which items will be used in the activity, how many of each item will be needed for each individual and each student team, and the size of each team. We recommend that you ask student helpers to assist you in locating materials and preparing for each activity.

After you have completed the unit, make a list of any items that need to be ordered for the next use. For information, call 1-800-258-1302.

Distribution Stations

The most efficient way to distribute materials during an activity is to set up distribution stations from which students can obtain materials as needed. If space in your classroom is limited, you may have room for only one station. If you have more space, we recommend setting up two or three distribution stations, each containing about half or one-third of all the materials listed in the Materials list for each activity. In this way, each distribution station will contain all of the different items used in the activity, and students will not need to visit more than one station to obtain all of their materials.

Cooperative Learning

The **Broward County Hands-On Science** program encourages and promotes cooperative

learning strategies. The quantity of materials included in each kit allows small groups of students to investigate phenomena and individual students to make observations and report what they have learned. The interaction between team members is an integral part of each activity and enhances individual outcomes.

ADVANCE PREPARATION

Activity 21: Locate an area outdoors where students can act out the speed of different objects, ranging from a snail to a jet plane and a rocket.

Activity 22: Students will use small plastic carts included in the kit. If the carts are not yet assembled, put them together by attaching the wheels and axles before students start the activity.

Activity 23: Inflate a balloon for each team. Also borrow a basketball, volleyball, or soccer ball from your school's recreation supply.

Activity 24: Prepare a taped stack of washers as described on page 271. You may also need to borrow thick books, four for each team. In place of books, you could use wood blocks.

Activity 26: Prepare the materials to be tested as described on pages 291–292.

Activities 27 and 28: You will need to prepare eight pairs of sound boxes as described on page 297.

Activities 29 and 30: For each activity, cut a waxed paper rectangle 8 cm × 12 cm (about 3 in. × 5 in.) and a strip of plastic 1.25 cm × 10 cm (about ½ in. × 4 in.) for each student.

MATERIALS MANAGEMENT

Be prepared for the fact that Activities 27–30 can be noisy. If you work in an open classroom, make sure to schedule sessions at times when the classes around you will be least disturbed. Or, if possible, find a soundproofed room for use during these activities.