

Portfolio Activity 10.6

ARRANGING A PROJECT-BASED SCIENCE CLASSROOM

Materials Needed:

- Drawing materials such as pencils, rulers, and compass
- Paper or a computer with a drawing program
- A classroom to observe

- A. Using the four principles of good classroom organization you just read about, design a 20-foot by 40-foot classroom so that it contains all of the following items:
- 25 flat-topped (not slanted) student desks
 - 25 student chairs
 - A 12-foot by 3-foot table
 - 10 extra chairs
 - A freestanding bookshelf
 - A teacher's desk and chair
 - A round table with a 5-foot diameter
 - A file cabinet
 - An overhead projector
 - Two computers on carts
 - An aquarium with fish
 - A cage with gerbils
 - Four plants in pots
 - A pencil sharpener
 - Textbooks
- B. Describe how your classroom organization will facilitate project-based science learning. You may want to review chapters that discussed benchmark lessons, collaborative learning, and other techniques that facilitate learning science.
- C. What specific types of learning centers, bulletin boards, and visual displays would you design to interest students in science and promote the development of driving questions and investigations?
- D. Visit an elementary or middle grade classroom to determine whether the classroom follows the four guidelines for good organization. If not, what would you do to change it?
- E. Record your ideas and file your design in your portfolio.

- Student belongings
- The teacher's supplies

Permanent features of the classroom are shown in Figure 10.1.

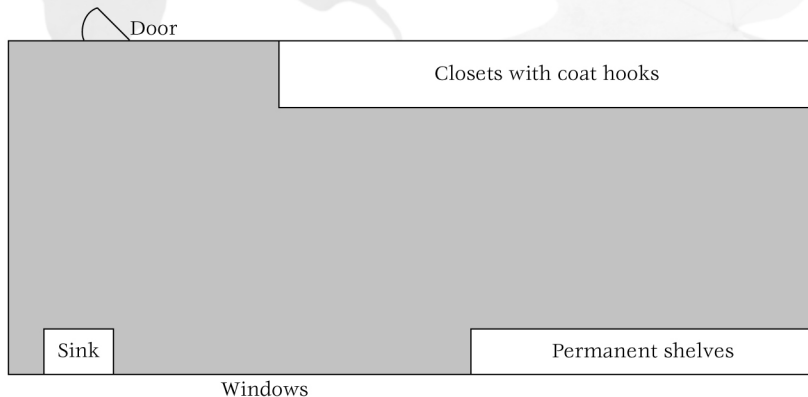


Figure 10.1
Permanent features of classroom.

