

# INSTRUCTOR'S MANUAL

## RESCUE ME! MOTHER EARTH CALLS 911: WHAT'S HURTING ME

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# 1

## PESTICIDES

### INTEGRATED PEST MANAGEMENT

**Worksheet:** *Pages 35 and 36*

**Learner's Workbook:** *Pages 3 and 4*

1. Ask learners what they would do if they saw a roach running across the floor of their houses. Most will tell you to get the Raid® and spray the bug. Some will say, "Call the bug man" to spray the house.
2. Write the word "pesticide" on the board or large piece of paper where all can see. Find out who knows what the word means. Listen to responses (*a chemical substance used to kill pests*). Have learners name some common pesticides (*Raid, sprays, Control®, bug bombs*). *Do learners think pesticides can harm them? (Yes.)*
3. *How can they kill bugs and not harm humans?* Write answers on the board or a large piece of paper where all can see. Have everyone discover how to safely rid their homes of insects by selecting volunteers to read workbook page 3 out loud. Discuss the information as a group.
4. Direct each person to complete workbook page 4. Review answers together. (*Answers are on page 96 of this manual.*)

### BUG EXPERIMENT

**Worksheet:** *None*

1. Allow group members to do an experiment: direct them to count how many times they see a bug in their homes for two weeks; then, use the Integrated Pest Management applications, and write up the results in a report to others.
2. They could send this report to local pest control businesses to let them know how Integrated Pest Management is a healthier way to get rid of bugs. Companies should consider controlling insects this way instead of spraying poisons all the time.

## **DOCUMENTARY**

**Worksheet:** *None*

1. Obtain a video recorder from your school's Media Center. Have group members make a "documentary" about Integrated Pest Management, demonstrating caulking under the sink by using the classroom as an example. In the video, don't forget to show where to put toxic bait traps and boric acid. (Caution: Boric acid is poisonous and should not be used by children. It is dangerous to toddlers and pets.)

## **PESTICIDES AT SCHOOL**

**Worksheet:** *None*

1. Help participants investigate the school's pesticide policy. Be sure to ask what is used and how often they use that material.
2. Select volunteers to keep a record of your school's pesticide application schedules, types of chemicals used, and absentee records for the week following the pesticide treatment. Have them put this information on a graph so all can see if more people are absent after spraying.
3. Instruct learners to put together a presentation for custodians and school administrators on how to use Integrated Pest Management instead of pesticides.

## **HOUSE PLAN**

**Worksheet:** *Page 37*

**Learner's Workbook:** *Page 5*

1. Using the information under number four on workbook page 3 from the first activity, challenge everyone to draw a House Plan on workbook page 5, showing where holes need to be sealed to keep bugs out and where to place traps.
2. Share plans as a group.

## **ATTENTION ALL BUGS!**

**Worksheet:** *Page 38*

**Learner's Workbook:** *Page 6*

1. On workbook page 6, have each person create a label for a jar of his own special soap mixture to get rid of bugs, and then write a newspaper advertisement for it.
2. Display artwork.

# INTEGRATED PEST MANAGEMENT

**IMPORTANT:** All of these Integrated Pest Management measures should be performed with an adult present.

1. Don't overdo it with sprays and bug bombs. Most roaches are immune to pesticide spray unless they're drowned in the stuff. Sprays are highly flammable; a spark can turn them into blow torches. People with respiratory problems should be especially careful.

Remember, these chemicals can't tell the difference between people and insects. They're dangerous and don't know when to stop killing.

2. Toxic baits, like Combat®, work well. They come in small, black, plastic containers and don't allow the bait to leak out. Stick them under sinks, cabinets, and along baseboards. Combat may not kill every roach in the house, but it will reduce the population. Chemicals in this product cause the insect to fall asleep and die.
3. Boric acid powder is an old favorite in the war against bugs, but it must be used out of reach of small children or pets. Place the powder in fine lines inside kitchen cabinets, behind baseboards, and other hiding places. If boric acid gets wet, it won't work; it must be dry.
4. You can win the bug battle. The little critters need food and water, just like us. Repair leaky faucets, dry dishes and glassware thoroughly (no dishes or pots soaking overnight), seal food packages, and keep pots covered. Don't leave pet food or water out overnight unless you're trying to feed an army of roaches.

Fill in cracks and crevices in bathrooms and kitchens to prevent bugs from entering your living space.

# INTEGRATED PEST MANAGEMENT (cont.)

Integrated Pest Management is the least toxic way to control bugs. Put a check mark next to the statements using it.

1. \_\_\_ I saw a bug and sprayed it with liquid dish detergent.
2. \_\_\_ I saw a roach and sprayed it with Raid®.
3. \_\_\_ A man comes once a month and sprays pesticide all around the inside and outside of our house.
4. \_\_\_ I clean up carefully after I eat.
5. \_\_\_ I leave food crumbs on the floor.
6. \_\_\_ The sink drips water all the time.
7. \_\_\_ Dad fixed the leak in the bathroom sink.
8. \_\_\_ I know where bugs are coming into my house.
9. \_\_\_ I put full-strength dishwashing liquid around the outside of my house where the ground meets the building.
10. \_\_\_ Mom bought Max traps, a toxic bait to kill roaches.
11. \_\_\_ Dad caulked all the holes and cracks in the house.

# HOUSE PLAN

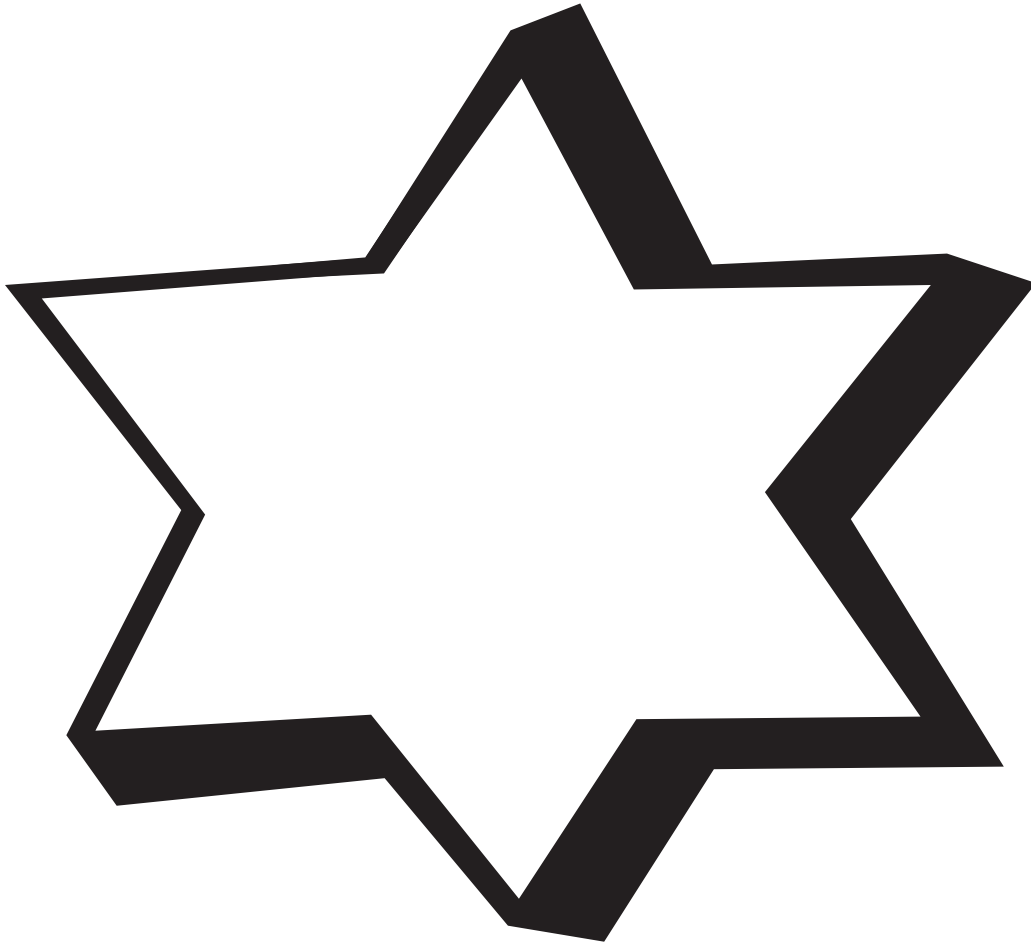
Draw a picture of the floor plan of your house. Show where you would caulk to keep bugs out. Where would you put bait traps? Where would you eliminate food items? Not all of us are born great artists. Just do the best you can to satisfy yourself.



# ATTENTION ALL BUGS!

Create a label for a jar of your special soap mixture to get rid of bugs. Write a newspaper ad for this item. Not all of us are born great artists. Just do the best you can to satisfy yourself. For these purposes, don't worry about grammar and spelling.

**Design the label:**



**Bug Gazette Advertising:**

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