

Teaming With Insects

Materials List

Level 1

Chapter 1

Activity 1	Insect pictures Drawing paper Pencil	Color markers Clear tape
Activity 2	Pencil Rubber bands Pipe cleaners Construction paper Milk jug cap or bottle cap Dryer sheets	Dried beans or rice Modeling clay Grass blades Leaves (green or dried) Sticks
Activity 5	Drinking straws Tape	Red plastic sheet (clear)
Activity 6	Tape measure Pencil	Stopwatch or watch with second hand

Chapter 2

Activity 7	3 plastic or foam cups Paper clip Bait (bread, fruit, lunch meat)	3 small pieces of board Small rocks 3 containers Trap table data sheets
Activity 8	Pencil Small plastic comb Poster board	

Chapter 4

Activity 11	Flashlight Pencil Insect Pest Inventory data sheet	
Activity 12	Clear plastic cup Stiff cardboard Container with holes in the lid	Insects and Relatives data sheet

Chapter 5:

Activity 14	3 to 5 Crickets Clear plastic container	Sand, potatoes or carrots Water bottle and cotton ball
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Level 2

Chapter 1:

Activity 1, pg 3	<p>Two wire coat hangers or other stiff wire Roll of electrical tape Iron-on fabric tape Two hose clamps Wire cutter Flat-headed screw driver A 4' to 5' length of 3/4" wood dowel (or an old broom handle) Netting, 1 yard. Note: An ideal material for making the bag is nylon mosquito netting, available from surplus stores. A good quality marquisette, tulle, or similar material also can be used, but cotton mosquito netting or cheesecloth is not satisfactory.</p>	
Activity 1, pg 4	<p>Empty 35-mm film canister (available in a photography store or the photo department in a drugstore). Note: White canisters are preferred because they provide more light but a black or gray canister will work. Cap from a plastic soft drink bottle that will fit into the film canister Lens from Carolina Biological Supply Co., Item no. 602294, \$8.75 (2010) for a package of 12 lenses (See www.4-H.org/curriculum/entomology to find website for this resource.) A 3" long, 3/4" wood dowel (or wooden spoon) Power drill and 1/2-inch drill bit</p>	
Activity 1, pg 5	<p>Glass jar with tight fitting lid Piece of corrugated cardboard Masking tape or duct tape Rubber bands Fingernail polish remover Scissors</p>	<p>A plastic container about 5 inches by 9 inches with a tight fitting lid Playground sand Styrofoam™ piece, cut slightly smaller than container Bleach</p>

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Chapter 2

Activity 2, pg 8	Two-liter soda bottle Scissors Magic marker	4-inch square piece of wire or plastic window screen Isopropyl alcohol or other preservative Small lamp with a 40-watt bulb
Activity 2: pg 9	Plastic cup or the bottom of a water bottle or plastic jar Petroleum jelly	Sheet of paper Bait such as an apple slice or piece of banana Transparent tape
Activity 3	Flashlight Cardboard box about 1 foot x 1 foot x 1 ½ foot	Duct tape Empty toilet paper rolls (4-5) Scissors or knife
Activity 4	Two peaches or bananas (can be rotten) Plastic or glass bowl (not metal) Large paint brush	Sugar Molasses or honey Flashlight Clear plastic wrap
Activity 5	Small jar with lid Hobby knife Tape	Shoebox Sweep net Table lamp Grocery bag
Activity 7	Styrofoam Craft glue Insect pins or straight pins	Butterflies or moths (killed, relaxed, and dried) Thin strips of paper (1" x 6")
Activity 8	Red, yellow, and blue plastic picnic plates Three jars marked red, yellow, and blue	Plastic funnel Paper towel or coffee filter
Activity 9	Sowbugs (10, 40 for different parts) Plastic container (about 6" x 6") Paper towels Water Black construction paper	Two plastic containers, about the size of a shoe box Plastic wrap and masking tape Playground sand Dead leaves (about 30) Water Digital or cell-phone camera
Activity 10	Metamorphosis Wheel template. Appendix A Scissors Metal paper clasp	A large plastic tub or dish pan Water Dry dog food Cheesecloth or muslin

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Chapter 3:

Activity 11	Computer access
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Chapter 4:

Activity 13	Construction paper or other heavy paper about 8 1/2" x 12" Double-sided transparent tape (carpet tape works well) Scissors Stapler
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Chapter 5:

Activity 14	Jar with collected insects Fine sand such as sandbox sand A flat, plastic tray or container about 12" x 12" or larger Camera (cell phone camera will work)	A smoothing device such as a small flat box Small ruler Insects or other arthropods such as sowbugs or millipedes
Activity 15	Two file folders Rubber bands or yarn Large wooden sticks or tongue depressors or small twigs from the forest for a more natural look Hole puncher	Scissors Writing pencils Colored pencils, pens or markers, stickers, stencils or stamps Tape Glue stick
Activity 16	Four (empty) aluminum cans of different sizes Balloons (at least four)	Marker Newspaper Two 2-liter plastic bottles, with caps
Appendix B:	Plaster of Paris Mixing cup and stick or spoon for mixing the Plaster of Paris 2 strips of cardboard or plastic from a milk carton, or jug	

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Materials List

Level 3

Chapter 1:

Activity 2	Access to the Internet or library
Activity 3	Entomology Level 2 activity book and records (optional).

Chapter 2:

Activity 4	Soda bottle, 2-liter, rinsed Scissors Sand or soil	Small piece of damp sponge Panty hose or cheesecloth Rubber band Plant mister
Activity 5	Rope, 40' long Permanent marker	Two stakes or dowels, at least 2' long
Activity 6	Index cards Poster board or large sheet of paper	
Activity 7	Trowel or small shovel 5 pitfall traps Fruit Wood or metal strips or small board	

Chapter 3:

Activity 9	Internet or library resources
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Chapter 5:

Activity 13	Transparent tape Pen Vehicle that has travelled	Digital or camera phone Color pencils Graph paper
Activity 14	Mealworms Containers (9) Cornmeal	Permanent marker Ruler Thermometer
Activity 15	Box of raisins (Case 1) Jar of marmalade or jam (Case 2) Paper towels Jars (2) Hand lens (Made in Level 2 or purchased) Funnel Empty jar with tight-fitting lid	