

Activity 1: Ants, Ants, Ants

Session 1: The Ant Hunt

What You Need

For the group

- ☐ 1 tray with a small mound of earth
- Moist food for ants (use extremely small amounts) such as canned cat or dog food, lunch meat, a piece of fruit, or a piece of sticky candy
- ☐ 1 board, log, or flat stone, such as a flagstone, approximately 8" x 12"

optional

☐ Several spray bottles filled with water (only if the ground outside is dry)

Session 2: The Ant Farm

What You Need

For the group

- □ 10–12 live ants (If you have ants in your area that are too large to squeeze through the cracks in an ant farm, collect them. If not, you can purchase ants. See Resources on page 79.)
- ☐ 1 commercial ant farm with sand and birdseed (See Resources on page 79.)
- Several eye droppers
- ☐ 1 cup, half filled with water optional
 - ☐ 1 homemade ant farm (See the instructions for making a homemade ant farm on page 13. The books *Ant Cities* and *questions and answers about Ants* give directions for making a homemade ant farm. See the Resources on page 79.)

Activity 2: Ants and Ant Tunnels

Session 1: A Closer Look at Ants

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or t	he group
	1 Ant poster (page 19 and as an 11" x 17" perforated fold-out sheet in the back of this book)
0	Ant model patterns—not needed if the children design their
	own ant (page 20 and as a perforated sheet in the back of
	this book)
	☐ Pattern A (worker ant)
	☐ Pattern B (ant leg)
	☐ Pattern C (ant antenna)
	D 1 bross
	☐ 1 tray ☐ 1 large pair of scissors
	☐ Newspaper (to cover the tray and work tables)
	a Newspaper (to cover the tray and work tubics)
	For each child and yourself
	☐ 1 sheet of 6" x 6" brown construction paper (or paper from a
	grocery bag)
	☐ 1 container of white paste or glue, or a glue stick
	1 pencil or black marker
	optional
	 Scissors—needed if the children design their own ants
	☐ Scraps of brown paper
	Session 2: Ant Tunnels
	What You Need
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	For the group
	☐ 1 Ant Farm
	Sections 1 and 2 of the Ant Nest poster—Ant Tunnels
	(The sections are 11" x 17" perforated fold-out sheets in the
	back of this unit.)
	Several ant books with good pictures of tunnels.
	(See Resources on page 79.)
	1 or 2 tunnels made from sheets or blankets draped over
	chairs or tables; or use a commercial tunnel (a fabric-
	covered spiral large enough for a child to crawl through—
	available at many toy stores) 1 chamber made from a table with a blanket or sheet throw.
	over it; or use a tent or a large box, such as a box a refrigera
	tor or oven is shipped in. Connect the chamber to the
	tor or over to orapped it. Connect the diminet to the

Ant Farm Activity Sheet (page 24 and as a perforated sheet

tunnel(s).

in the back of this unit)

Session 3: The Ant Nest Mural What You Need For a group of 10-12 children ☐ 1 large piece of butcher paper (about 3' x 10') ☐ Several paper ants For each child and yourself ☐ 1 sheet of butcher paper (18" x 18") ☐ 2 sheets of gray or white construction paper (9" x 12") ☐ 1 marker or pencil ☐ 1 container of glue **Getting Ready** 1. For each child and yourself, precut the two sheets of gray construction paper. Cut one sheet in half lengthwise into two 4 ½" x 12" strips. Cut the other to resemble an ant chamber. (See the drawing on page 26.) Activity 3: What Happens Inside an Ant's Home? Session 1: Scouts and Guards

Vhat You Need

or the drama	For the group
□ 1 brown towel, sheet, or blanket □ 1 bucket □ 1 doll □ 1 lunch bag □ 1 graham cracker □ Several paper ants made in the last activity	 1 bottle of lemon or strawberry extract, or any familiar food extract with a mild scent (Use this scent in Following the Scent Trail on page 32.) 1 bottle of peppermint extract, or any familiar food extract with a strong scent (Use this scent in Guarding the Nest on page 33.) 2 plastic bags for cotton balls 1 piece of string or thick yarn approximately 10 yards long, for an ant trail (Could use a chalk line on cement.) 1 grocery bag 1 tray Several extra cotton balls
	For each child and yourself
	☐ 1 cracker
	☐ 1 cotton ball

Session 2: Dragging Food into the Nest

What You Need

For the group

- ☐ 1 or 2 tunnels made from sheets or blankets draped over tables; or use a commercial tunnel (a fabric-covered spiral large enough for a child to crawl through)
- ☐ 1 sleeping bag, blanket, or bedspread to make a caterpillar; or 1 large pillow or cushion to make a bug
- 4 pieces of rope or strips of fabric, 2' long, for the "caterpillar"

optional

- ☐ 2 round fabric "eyes," about 3" in diameter
- ☐ 1 needle and thread for sewing eyes onto the "caterpillar" or "bug"

Session 3: More Ant Food

What You Need

For the group

- ☐ 1 Ant Farm
- ☐ Ant Nest poster (The sections are 11" x 17" perforated foldout sheets in the back of this unit.)
- ☐ 1 roll of clear tape
- ☐ 1 roll of masking tape, or push pins
- ☐ 1 tiny scrap of food, such as a dead gnat or about a 1/16" slice of strawberry
- ☐ Markers or crayons in assorted colors *optional*
 - ☐ Several spray bottles filled with water

Activity 4: How Ants Grow and Change

What You Need

or t	he group
	Ant Nest mural with the children's individual nests from
	Activity 2, Session 3
	Paper ants made in Activity 2, Session 1
	1 sheet of 6" x 8" brown construction paper (or paper from a
	grocery bag) for the queen ant
	Patterns B, C, and D (queen ant) on page 20
	Ant Nest poster
	Section 5 (Queen and Eggs) of the Ant Nest poster
	(The section is an 11" x 17" perforated fold-out
	in the back of this book.)
	1 Ant Farm
	1 paper chamber
1	1 paper tunnel
L	1 roll of masking tape or several push pins
U	1 roll of clear tape
	 Scraps of white, green, yellow, and brown paper
	☐ Several white crayons
	 Markers or crayons in assorted colors
	 Several containers of glue or glue sticks
	☐ Several scissors
	 Several ant books with good pictures of ant eggs and larva
	(See Resources on page 79.)
	optional
	Section 6 (Larvae and Pupae) of the Ant Nest poster
	(The section is a $11" \times 17"$ perforated fold-out

in the back of this unit.)

Activity 5: Fill the Hill

Anthill Recording SheetPencil, marker, or crayon

What You Need
For each child and yourself 1 Fill the Hill game board (page 52 and an 11" x 17" perforated fold-out sheet in the back of this book) 1 plastic container 15–20 plastic ants 5–10 grains of uncooked rice to represent the ant eggs 2 one-inch pieces of green yarn to represent a grasshopper 2 one-inch pieces of yellow yarn to represent caterpillars
□ 1 small piece (about half-an-inch square) of a graham or saltine cracker optional □ crayons, markers, and/or pencils
Session 2: Fill the Hill Again!
What You Need
For each child and yourself □ 1 Fill the Hill game board □ 8½" x 11" card stock (It is helpful to have two colors.) □ 1 plastic container filled with plastic ants, yarn, and rice □ 1 piece of a cracker for each container optional □ Anthill Recording Sheet (page 58 and as a perforated sheet in the back of this book) □ Fill the Hill card sets A and B for each pair of students (pages 59–60 and as perforated sheets in the back of this book) □ Pencils, markers or crayons
What You Need Session 3: Fill the Hill Cooperative Game
For the whole group 8½" x 11" card stock (It is helpful to have five colors.) Envelopes (large enough to hold the card sets) For each pair of children and yourself 1 Fill the Hill game board 1 plastic container filled with ants, yarn, and uncooked rice 1 piece of a cracker for each container Fill the Hill card sets 1-5 (pages 64–73 and as perforated sheets in the back of this unit) optional