ACTIVITY 1

GETTING TO KNOW LADYBUGS

Overview

Learning about ladybugs generates enthusiasm for these colorful insects. The children observe live ladybugs and posters of ladybugs to learn about their behavior and body structure. As the children look at the posters and make paper ladybugs, they find out that ladybugs have six legs, two antennae, two flying wings, and two cover wings. They take part in dramatic and role-playing activities to show some of the fascinating ways ladybugs protect themselves from birds.

The children learn about symmetry as they discover the symmetry in their bodies and a ladybug's body. They continue their exploration of symmetry through a variety of art projects. The boys and girls also create symmetrical spots on ladybug drawings, which provide an opportunity to practice counting skills as well as to make guesses about numbers.

Session 1

INTRODUCING LADYBUGS

WHAT YOU NEED

For the whole group

- 1 Ladybug poster
- 1 Flying Ladybug poster
- 1 red marker, or red watercolor paint and a brush
- Pictures of ladybugs (See Resource Books on page 75 for books with color illustrations and photographs of ladybugs.)

For each child and yourself

- 1 clear plastic container, such as a plastic cup, with a lid or a bug box
- 1 live ladybug (The value of having live ladybugs for the children to observe and enjoy is well worth the time and
Introducing Ladybugs

If you decide to place the plants in water to keep them fresh longer, you need to cover the water so the ladybugs won’t fall in and drown. An easy way to do this is to fill a yogurt cup with water, put the lid on the cup, poke a few holes in the lid, and push the stems through the holes. Place the cup with the plants in the container.

the small amount of money you spend. You can buy ladybugs from a biological supply company or from most garden supply stores during the spring and summer months, if you cannot collect them in your area. See Resource Materials on page 75.)

For caring for the ladybugs

> 1 clear plastic or glass container, such as a fish bowl
> 1 piece of nylon stocking
> 1 rubber band
> 1 small bunch of plant leaves and stems that are covered with aphids (Look on rose bushes, dandelions, nasturtiums, strawberry, bean, pea, and tomato plants.)
> 1 spray bottle

Optional
> 1 small yogurt container with a lid
> 1 sharp knife or pair of scissors

GETTING READY

Anytime Before the Activity

1. It is useful to learn more about ladybugs before you begin these activities in case the children ask you any unanticipated questions. Background Information on page 72 tells you about ladybug body structure, life cycle, defenses, and the insects ladybugs eat. Many excellent books with information about ladybugs are available. Some are referenced on page 75.

2. Color the Ladybug and Flying Ladybug posters to make them more attractive and realistic.

3. If aphids or a commercial ladybug food are unavailable, keep the ladybugs in the warmest part of the refrigerator until you are ready to use them. Refrigeration slows down their movements and metabolism so much that they do not eat. If aphids are available, follow these steps:

   a. Place several plant leaves and stems that are covered with aphids in the container.

   b. Lightly mist the leaves and stems. Be careful not to let much water collect on the bottom of the container because ladybugs can drown in very little water.

   c. Put the ladybugs into the container.
Ladybug Theme Ideas

Never Hurt A Ladybug (tune: "Yankee Doodle")
Ladybugs are in my yard.
Just look at them devour
Those pesky aphids on the leaves
Of Mother's pretty flowers.
Never hurt a ladybug.
We need them in the garden.
Ladybugs help flowers grow
So we must never hurt them.

Pretty Ladybug (The Muffin Man)
Ladybug has 1 black spot,
1 black spot, 1 black spot;
Ladybug has 1 black spot,
Pretty ladybug!
Math - Counting Activities
Using the above song, children or teacher can add a spot each time a verse is sung, thus teaching numbers sequentially as high as developmentally appropriate for the children. Spots can also be placed randomly with the child announcing how many he/she has placed and then singing the song. Children also enjoy playing individually with the set.
Ladybug facts
Ladybugs can be red or yellow with black, red, white, or yellow spots.
There are about 150 species of ladybugs in the U.S.
In winter, 50 to 100 ladybugs hibernate together.

Ladybugs Fly (Three Blind Mice)
Fly, fly, fly.
Ladybugs fly..
Fly over here.
Fly over there.
They fly up high and they fly down low.
Around and around and around they go.
They fly fast, and they fly-fly slow.
Oh, ladybugs fly.

Ladybug Rhyme
Begin by asking the children to stand several feet from one another.
Ladybug, ladybug, (move fingers)
Let me see your crawl, (crawl slowly on all fours)
Hurry after those harmful bugs (move quickly on all fours)
But be careful, do not fall! (fall over)
The Ladybug
When strolling through the garden
You should chance to see
A ladybug out walking
Please say 'Hi!' for me.
For a ladybug is a good bug
And she helps the garden grow,
She's supposed to bring good luck
So be sure to say 'Hello!'

Ladybugs...
Lady bug, lady bug,
How are you today?
Lady bug, lady bug,
Are you going to stay?
Lady bug, lady bug,
Or will you fly away.

Mr. Ladybug
A ladybug went to work one day,
and said to her husband,
"Now while I'm away,
please take care of the house,
and sweep the floor,
and don't let the baby bugs
fly out the door!"
So he polished, and cleaned, and vacuumed the rug,
he fed all the baby bugs, gave each a hug,
and when he finished, he said with a shrug,
"It's really hard, being a man ladybug!
Oh, I work, and I work, just as hard as I can,
'Cause it's really hard, being a ladybug man!"

Ladybug Rhyme
Ladybugs all dressed in red
Strolling through the flower bed.
If I were tiny, just like you
I'd creep among the flowers too.

Five Little Ladybugs...
Five little ladybugs climbing up a door
One flew away then there were four
Four little ladybugs sitting on a tree
One flew away then there were three
Three Little ladybugs landed on a shoe
One flew away then there were two
Two little ladybugs looking for some fun
One flew away and then there was one
One little ladybug sitting in the sun
She flew away and then there were none

Potato Print Ladybugs...
Using a potato cut in half print red circles. When dry add dots, eyes, legs with black pen.

Ladybug Rocks
Materials needed: small rocks, paint, pipe cleaners, sheet protectors, beads, magnetic strip.
Instructions: Paint small rocks to look like ladybugs or other bugs. Use pipe cleaners for legs on spiders, overhead transparencies or sheet protectors for wings, tiny beads for big bug-eyes. Put a small piece of magnetic strip on the back if desired.

Ladybug Paper Plates
Paint paper plate red, then while they dry, cut out black wings (a circle then cut it in half) Punch holes in connecting corners of the wings. Now paint or color some black spots on the ladybugs and then use brads to fasten the wings onto the ladybug (the brads allow the wings to move) don't forget to give her a face.

Ladybug...
Make lady bugs from corrugated cardboard. Cut an oval shape from the cardboard. Insert three 6” pipe cleaners for legs through tunnels in the cardboard. Bend legs appropriately and add stickers for spots. Color in eyes or add wiggly eyes.

Ladybug Hand Puppets...
Cut two pieces of felt into oval shapes that are flat on one end - large enough to fit on hand. Then cut two wings to glue onto felt body. Glue on buttons for spots and wiggle eyes, pipe cleaner antennae.

Ladybug Finger puppet...
To make a ladybug finger puppet for each child, collect a supply of red jug lids. Hot glue a black pom-pom to each jug lid forming the head; then glue two wiggle eyes to pom-pom. Using a permanent black marker, embellish the ladybugs back with dots. Insert a ball of clay or play dough into the lid. To use the puppet, a child must press a finger into the dough. Take an egg carton section and (teacher) uses a hole punch (or the sharp part of a compass) to make holes in the sides and top. Then cut pipe cleaners to make legs and antennae. Kids can paint them first. They add the legs, and antennae (use the regular pipe cleaners for legs and the fancy ones for antennae. Give them wiggly eyes and hole punch dots for noses. They are really cute. Let them make lots of them - If you're having a picnic. They could be your ants - or any little bugs they'd like them to be. Paint them red and put "hole puncher" dots on them for ladybugs. Or they can just be silly bugs.
**For A Fun Counting Center:**
Spray paint about 85 large lima beans red. That's 78 for the game and extras. When the beans are dry provide fine tip markers (permanent) and invite the children to add the dots. Label each container of an egg carton with numbers 1-12. Store the ladybugs in plastic bag. To use this center, a child must match the correct number of ladybugs in the numbered space.

**Spots On Ladybugs...**
Draw or photo copy five to ten large ladybugs. Color them but do not add the dots. Program unlined index cards with the numerals one through five and corresponding dots for younger children. Place black buttons in the center and have the children place the correct number of spots on the ladybug

**Make Ladybugs.**
Give a child a red ladybug shaped piece of paper. Have them glue on black antenna then dip their finger into black paint and make black spots on the ladybugs back.

**Dotty the Ladybug Plays Hide and Seek (Baby Bug Books)**
by Jonathan Lambert
Little ones just lift the flaps to help Dotty play her favorite game of hide-and-seek and find the missing cricket in the thicket, the ant behind the plant, and the snake by the lake.

**Lady Bugs**
Materials: Paper bowls, red tissue paper, glue, black construction paper, pipe cleaners, paint brushes.
Give the children some tissue paper and have them rip it into small pieces. Mix glue with a little water to thin it out and pour into a small container. Give each child some glue and a paint brush. Let them glue the tissue paper all over the back of the paper bowls. Cut some black circles out of the construction paper and let them glue those on to. Poke two holes in the bowl on one edge of the top and have the children stick one end of the pipe cleaner in each hole from the inside of the bowl and then pull them through so they look like antenna. We finished up by drawing a face on with markers.

**Ladybug Finger puppet...**
To make a ladybug finger puppet for each child, collect a supply of red jug lids. Hot glue a black pom-pom to each jug lid forming the head; then glue two wiggle eyes to pom-pom. Using a permanent black marker, embellish the ladybugs back with dots. Insert a ball of clay or play dough into the lid. To use the puppet, a child must press a finger into the dough.
**LADYBUG BINGO**

Play "bingo" with 3's and 4's. Paint walnut shell halves red. Painted 1 black dot on 6 shells, 2 black dots on 6 more shells, 3 red dots on 6 more shells, etc. until there were 6 black dots on 6 shells. Glue on Wiggle eyes, and tiny pipe cleaner antennas on each "ladybug shell". Made 6 game boards, each one divided into 6 sections. The first section had the #1 and one black dot, the second section had the #2 and two black dots, etc., until went up to the #6 and six black dots. Make one large die with a corresponding number of dots. (1 - 6). The children toss the die, see the number of dots that come up, and then choose the matching ladybug shell with the same number of dots to place on their game board. Play the game by taking turns. The first to get all the sections filled with a ladybug is the winner. It is an excellent way to teach one to one correspondence, eye-hand coordination, focusing, and fine motor skills.

**HOME MADE BUG CATCHER**

I have seen some different type of bug catchers, but did you know you could make your own. Its very easy. You can take a plastic container (I have seen as small as those little juice containers that are shaped like barrels, and milk jugs of all sizes done) and cut a hole on one side of the container and glue that tulle netting around the circle so the bugs cannot get out and the bugs enter in through the mouth of the jug. They turn out really cute!
Which ladybugs match? Count the dots. Draw a line between the ladybugs that have the same number of dots.
Ladybug Math 2-4
Student Sheet(s)

Count the dots on the ladybugs. Write the number below each bug. Add the dots. Draw the total number of dots on the empty ladybug.

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\begin{align*}
\text{Ladybug 1} & \quad + \quad \text{Ladybug 2} & \quad = & \quad \text{Ladybug Total} \\
\text{Ladybug 3} & \quad + \quad \text{Ladybug 4} & \quad = & \quad \text{Ladybug Total} \\
\text{Ladybug 5} & \quad + \quad \text{Ladybug 6} & \quad = & \quad \text{Ladybug Total} \\
\text{Ladybug 7} & \quad + \quad \text{Ladybug 8} & \quad = & \quad \text{Ladybug Total}
\end{align*}
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**What You Need**
- squares of felt, red and black
- scissors
- paper triangles, assorted colors, same size
- glue
- dice or 1–6 spinner
- wooden or plastic clip colors, same size
- black marker
- clothespins
- markers

**In Advance**
1. With children’s help, create a felt ladybug game board by cutting a large oval from the red felt. Use the marker to draw black eyes and a black stripe down the center of the ladybug’s back.
2. Cut out twenty to thirty small black “spots” from the black felt.

**What to Do**
1. Set out the ladybug game board and a pile of black spots. Show children how to roll the dice and count the number of dots. Have children add that number of spots onto the ladybug.
2. Have the game available in the Math Center for children to play.
3. For older children, add this rule: Whenever doubles are rolled, the player takes away that many spots.
4. For younger children, put one to six spots on one side of the ladybug’s back. The child puts the same number on the other side.

**Questions to Ask**
- How many dots are showing on the dice?
- Can you add that number of spots to the ladybug?
- How many spots does the ladybug have now?

**Vocabulary** add, count, dice, ladybug, spots

**Science Skills** Counting, matching
Ladybug Sandwiches

4 slices of bread (more for big appetites)
Mayonnaise
Slices of yellow cheese
Slices of turkey
Large circle-shaped cookie cutter
Cherry tomatoes
Thin pretzel sticks

Have your child spread the slices of bread with mayonnaise. (Always remember to supervise knife use by children.) Arrange bread slices on plates.

Place turkey slices on bread to make open-face sandwiches. Add color by topping sandwiches with yellow cheese. Cut sandwiches into circular shapes with cookie cutter.

Have an adult cut the cherry tomatoes into halves. Let your child place the cherry tomatoes onto the bread (cut side down) to create the ladybug’s spots. Arrange pretzel sticks on sides of bread to create legs.

Ladybug Apples

Give each child a half of an apple. Spread peanut butter on the red part. Put chocolate chips on for spots and pretzels for antennas.

Ladybug Snack

One half of an English muffin, per child-Toasted, if desired. Cream cheese that has been dyed red with food coloring. Raisins.

Children spread the colored cream cheese onto the muffin half, add black raisin dots and eat the delicious lady bug.

Ladybug Cookies.

They are made by icing sugar cookies (round) with red icing. Use choc. chips as spots and licorice for antennae and legs.

Ladybug Snacks

Spread whipped cream cheese that’s been tinted red-orange on an oval cracker. Add raisins for spots.

Ladybug Muffins

Ingredients:
English muffins
cream cheese
red food coloring
raisins
lettuce leaves

Supplies
plastic knives
paper plates

Color the cream cheese with the food coloring prior to this activity. Have each child his English muffin with red cream cheese and dot with raisins. We paired this with the story, “The Grouchy Ladybug” by Eric Carle.
The Grouchy Ladybug
Ages 3 to 7

"Hey you," said the grouchy ladybug. "Want to fight?"
"If you insist," said the yellow jacket, showing its stinger.
"Oh, you're not big enough," said the grouchy ladybug and flew off.

The grouchy ladybug is looking for someone—anyone—to fight, no matter how big. From sunrise to sunset the ladybug badgers and bullies, until finally it meets its match.

"Here is one of [Eric Carle's] most unusual combinations of story and pictures. His big, color-splashed and enticing pictures are irresistible."

—Publishers Weekly