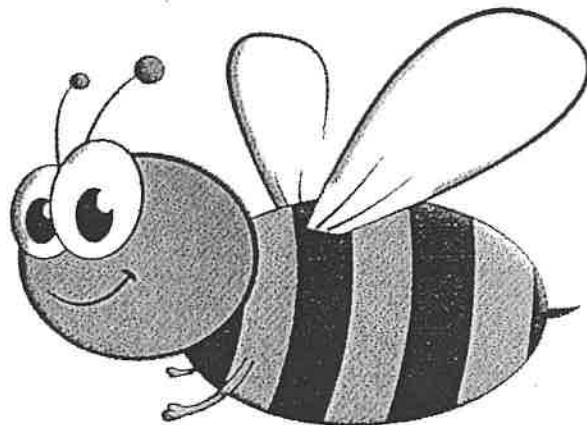


Insect Study
J. Harvey Rodgers
Prekindergarten



Insects

Concepts:

- 1. Identify what student knows about insects and wants to learn**
- 2. Identify and describe parts of an insect (3 body segments, 6 legs, wings, antenna, etc.)**
- 3. Give examples of where and how insects live (hives, trees, underground or colonies, flowers, under rocks, anthills, migration, camouflaging, etc.)**
- 4. Identify and describe the types of insects that are in our environment (ants, flies, caterpillars) and those that are not (scorpions, etc)**
- 5. Describe how insects change (metamorphosis, caterpillars to butterflies, stages, etc.)**
- 6. Identify types of jobs that work with insects: gardeners, exterminators, beekeepers, entomologists, etc.)**
- 7. Understand how insects help the earth through decomposition and pollination**

Vocabulary for Insect Study:

Insect, bug, stinger, nets, jar, inhabitant, pollen, honeycomb, defend, research, jointed legs, segments, communicate, gesture, colony, predator, exterior, mandible, proboscis, migrate, climate,

**construct, inspect, indigenous, range,
metamorphosis, larva, molt, stage, cautious, pest,
benefit, environment, decomposition, entomologist**

Essential Questions to Ask student:

- 1. What do we know about insects?**
- 2. What do we want to find out about insects?**
- 3. What are the characteristics of insects?**
- 4. Where do insects live?**
- 5. How do insects live?**
- 6. What insects are in our community (where we live?)**
- 7. Which insects change? How do they change?**
- 8. Who works with insects?**
- 9. How do insects help the Earth?**
- 10. How are insects and spiders the same?**
- 11. How are insects and spiders different?**
- 12. What insects have spots? Stripes? Wings?**
- 13. What other animals have some of the characteristics that insects have?**

Applying and Extending Learning:

Dramatic Play-encourage child to act out different sounds and motions of insects and act out careers associated with insects such as beekeepers and exterminators

Fine Arts-Use materials around the house to create your own insects such as toilet paper rolls, tin foil, coins, rocks, paper, silverware, blocks, etc.

Discovery/Science-Go on a bug hunt in the yard and look for bugs in different habitats such as under rocks, in sand, in trees, etc. Try to identify the types of bugs. Draw the bugs on paper and create a chart to keep track of the number and types of bugs.

Music/Movement-Dance to music; imitating insects

Technology: View webcasts showing different insects in the habitats and life cycles, take a virtual field trip to visit a beekeeper or entomologist, listen to and read books about Insects (see book list and/or visit school website for recorded Read Alouds)

Suggested Books:

The Very Hungry Caterpillar, What is an Insect?, I love Bugs! Bugs! Bugs!, The Very Quiet Cricket, Bugs for Lunch, The Grouchy Ladybug, Firefly Home, Leo the Lightening Bug, and Aanasii and His Children, Bug Patterns, Creepy Crawly Calypso (visit school website for recorded Read Alouds)

****Parent/Guardians: Please choose one activity per day from each area of learning. We encourage you to revisit activities to enhance and build on learning.****

Recommended Preschool Websites

abcmouse.com

starfall.com

[pbs kids.org](http://pbskids.org)

[pbs parents.org](http://pbsparents.org)

[nick jr.com](http://nickjr.com)

[preschool express.com](http://preschoolexpress.com)

ixl.com

[sesame street.org](http://sesamestreet.org)

[science starter.com](http://sciencestarter.com)

pbslearningmedia.org

storylineonline.net

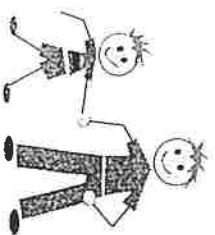
Insure That Your Child Does the Following Daily:

Write first name (and last if ready)
Identify letters of name(s)
Read and talk about books with an adult
Recite/sing the alphabet
Count with and without number chart and objects
Look for words and numbers in the environment
Use art supplies and writing tools

Also Encourage your Child to Continue:

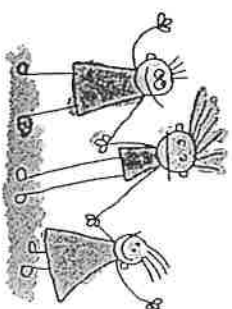
Dressing self
Exercising self-control at meals and quiet times
Obeying age-appropriate rules with few reminders
Talking about experiences and listening to others
Being responsible for possessions
Playing cooperatively
Exploring, sharing observations, making predictions
Making a plan and following through with it
Singing, dancing and making music
Playing math and language games
Building with construction toys
Maintaining healthy eating, sleeping and physical play routines
Getting plenty of family love and affection





Learning at Home for Preschool

Directions** Please do at least one activity per day and put an X on it as you complete the activities. When we come back to school, bring it in to show your teacher and classmates all the fun things you did at home with your family.



Rainbow write your name. Use lots of colors to trace over your name until it looks like a rainbow.	Read a book to your child and have them turn the pages and retell you their favorite part of the story.	Go on a circle and square hunt in your kitchen. Count how many you can find of each shape.	Read a rhyming book and encourage your child to fill in the rhymes in the book. Brainstorm more rhyming words.	Sprinkle salt, flour, oatmeal or sand onto a cookie sheet. Let your child practice letters, shapes and numbers.
Tear scrap paper to make a collage. Have your child tell you what they made and you can write a sentence about it.	Lather shaving cream on the tub wall and practice making letters, shapes and numbers in the shaving cream. Practice writing their name, too.	Go on a letter hunt in your home. Notice and talk about all the letters you see! What letter was the most popular letter?	Create a menu for dinner or a special occasion. Have your child set the table, too. Count all the plates, spoons, napkins and cups.	Water play: fill up a small dish pan and have your child explore the water with eye droppers, sponges, different size containers and objects for sinking and floating.
Do a variety of puzzles wooden and cardboard. After complete hide one piece and play "what's missing."	Roll out playdough flat to make shapes, letters, and numbers. Let your child make their name out of playdough.	Draw a picture of your family and label all the people in your family picture.	Make a pattern using coins, blocks, or any small objects. Draw your pattern and bring to school to share.	Read in a fun place like the bathtub, under covers, under a tree or park. For fun use a flashlight to read.
Count to 10. Challenge: try to hop on one foot to 10, do 10 jumping jacks, balance on the other foot for 10 seconds.	Find big, medium and small words in a book. Parents make a list and students clap out the syllables of each word.	Trace objects or use tracing stencils. Try to trace using broken crayons, short colored pencils or thin markers.	Trace out our child's foot and cut the foot out. Use the foot to measure how many "kid" feet big objects around the house are. Ex. their bed.	Have your child "read the pictures" of a book. Have them make up a completely new story just using the pictures.
Using a magazine or newspaper, play "I Spy" the letters of their name. Circle all the letters they find. What was the most popular?	Play games or explore with tweezers or small tongs to pick up small items such as cotton balls, marshmallows, or small rocks.	Using connecting markers, connect them and measure how tall each person in the family is. Who is the tallest/shortest?	Use small marshmallows and toothpicks to make shapes. Challenge: See if they can make a 3D shape like a box (cube).	Go on a nature walk. Collect twigs, leaves, nuts. Sort and count how many of each. While outside look at your shadow (is it taller or shorter than you?)

Introduction to the **Insect Study**

Insect Study



What do we know about insects?

What do we want to find out?

What are the characteristics of insects?

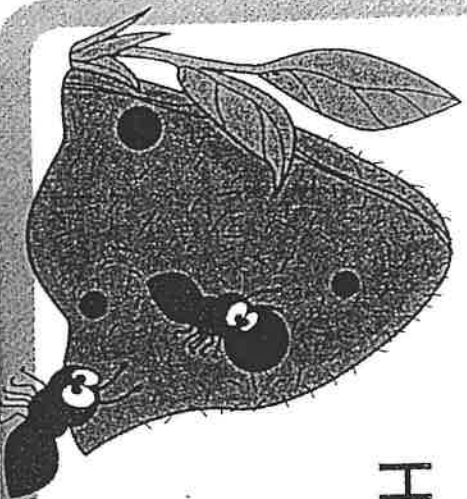
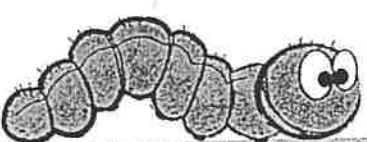
Where do insects live? How do they live?

What insects are in our community?

How do insects change?

Who works with insects?

How do insects help the earth?



Ideas for Materials:

- Net
- Magnifying glasses
- Tweezers
- Microscope
- Pictures of different insects
- Safety goggles
- Assortment of pretend bugs
- Real live insects (ant farm, caterpillars, ladybugs, etc.)
- Clipboards and writing tools
- Bug catchers
- Assortment of plants and flowers (real and pretend)
- Gardening tools and gloves
- Beekeeper outfit
- Observation jars
- Yarn and masking tape for webs
- Nature items
- Soil

Book list:

- The Very Hungry Caterpillar
- The Very Busy Spider
- The Very Quiet Cricket
- The Grouchy Ladybug
- The Honeybee and the Robber
- I Love Bugs
- From Caterpillar to Butterfly
- Ten Little Caterpillar
- The Very Lonely Firefly
- Little Kids First Big Book of Bugs
- How to Hide a Butterfly
- The Very Clumsy Click Beetle
- Backyard Books – Are You an Ant?
- Backyard Books – Are You a Dragonfly?
- Backyard Books – Are You a Ladybug?
- Backyard Books – Are You a Grasshopper?
- Backyard Books – Are You a Bee?
- Backyard Books – Are You a Butterfly?
- (This is a Book suggestion list for the study.)

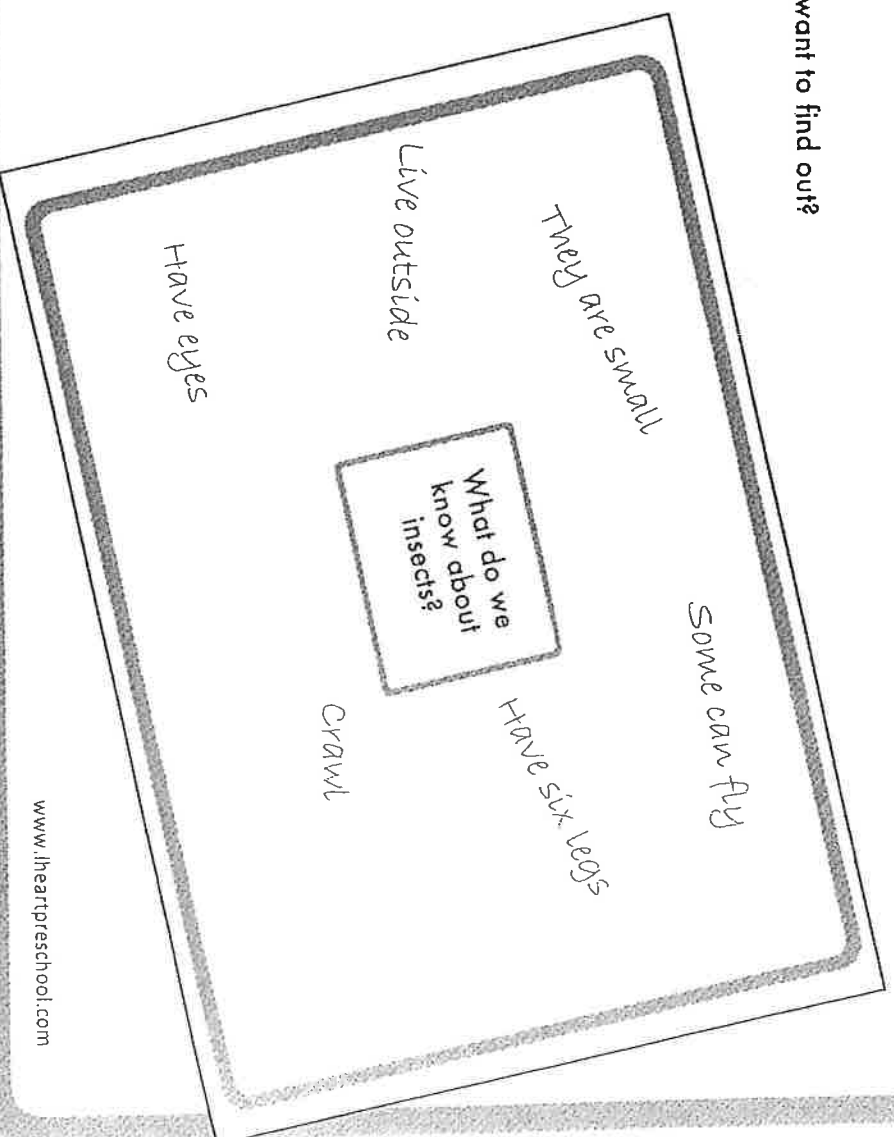
Insect Study - Study Topics

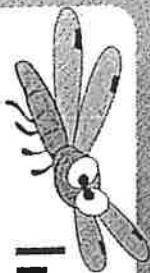
The Insect Study includes seven different study topics to investigate. Use the following print as a starting point for each investigation and write down the answers of the children.

Tip: Laminare the page and use an expo marker, this way you will be able to reuse it.

Study Topics:

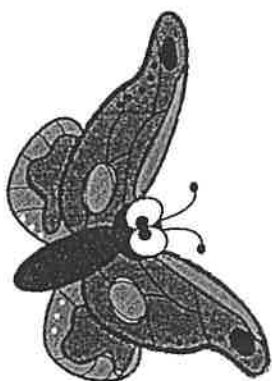
- What do we know about insects? What do we want to find out?
- What are the characteristics of insects?
- Where do insects live? How do they live?
- What insects are in our community?
- How do insects change?
- Who works with insects?
- How do insects help the earth?





Insect

Bee
Wasp/Hornet
Mosquito
Butterfly
Caterpillar
Ladybug
Ant
Fly
Moth
Grasshopper
Dragonfly
Beetle
Cricket
Cockroach
Aphid
Praying Mantas
Firefly



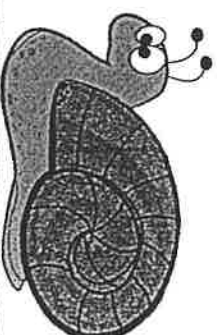
Characteristics

- 6 Legs
- 3 Body Parts (Head, Thorax and Abdomen)
- 2 Antennae
- Some have Wings
- Some insects can bite or sting



Not an Insect

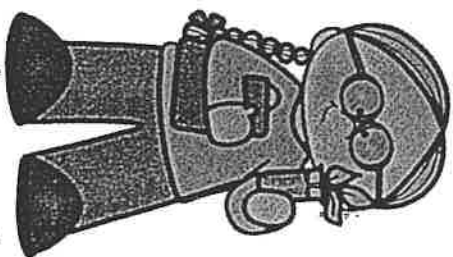
Spider
Worm
Mealworm
Scorpion
Snail
Slug
Centipede
Millipede
Mites
Ticks



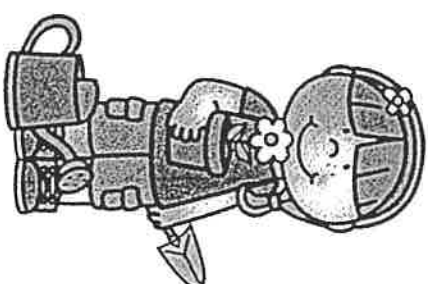
Who works with insects?



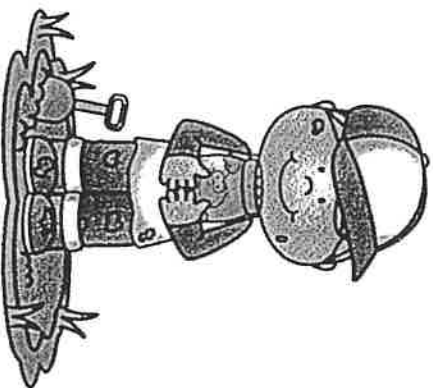
Entomologist



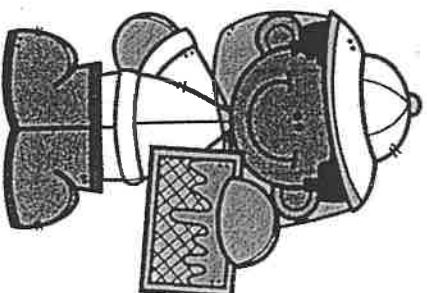
Botanist



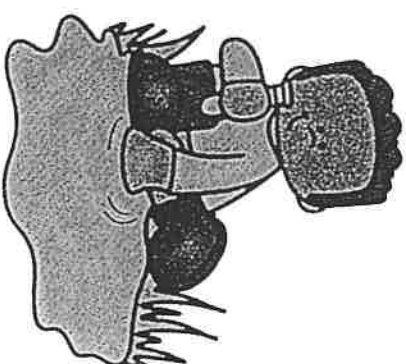
Gardeners



Nature center



Bee keeper



Ecologist

Language Arts **Activities**

Name

Aa Bb Cc Dd Ee

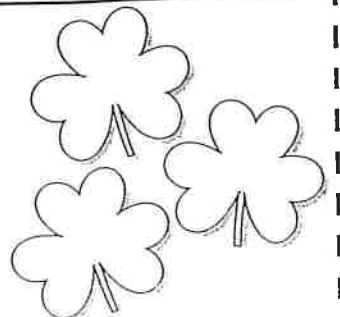
Ff Gg Hh Ii Jj Kk

Ll Mm Nn Oo Pp

Qq Rr Ss Tt Uu

Vv Ww Xx Yy Zz

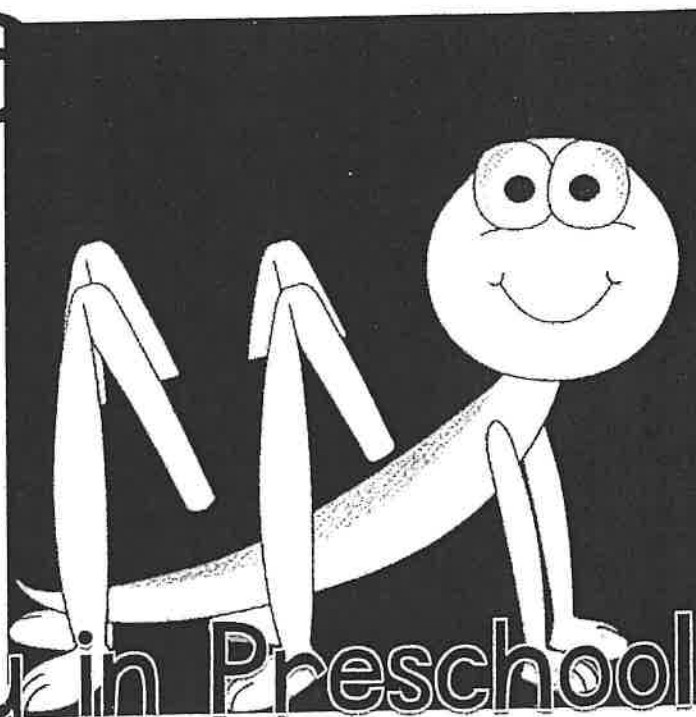
I am lucky because...



By: _____

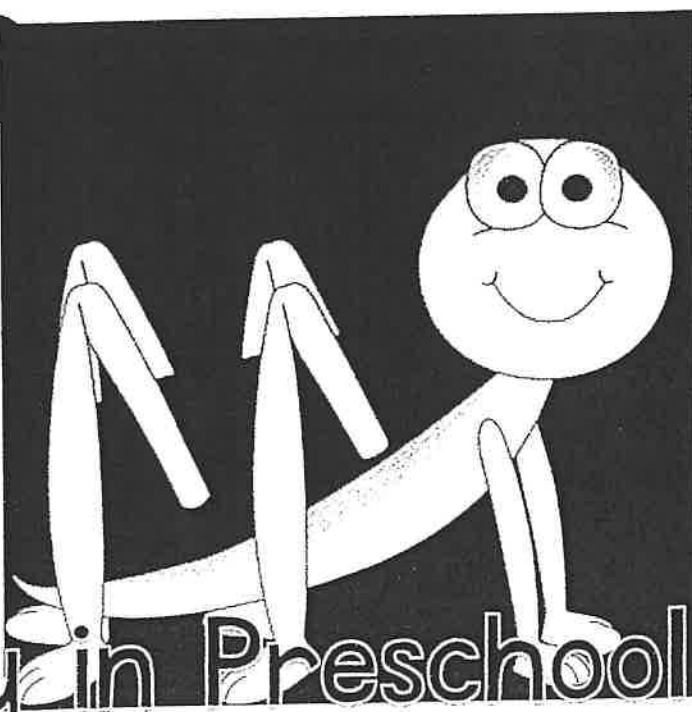
Where is the Bug?

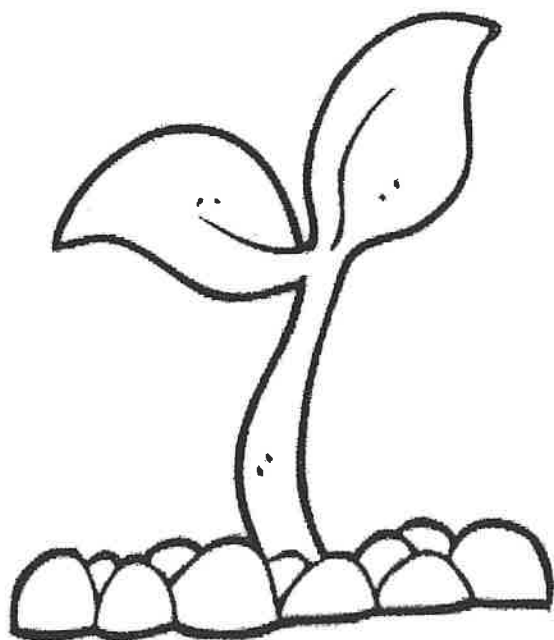
By A Party in Preschool!



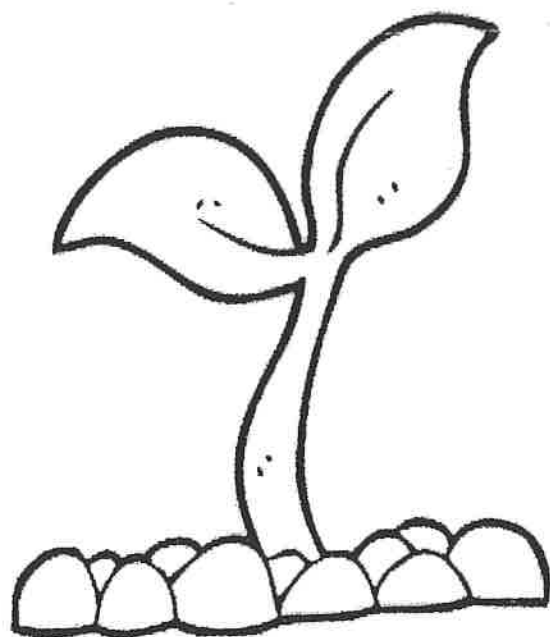
Where is the Bug?

By A Party in Preschool!

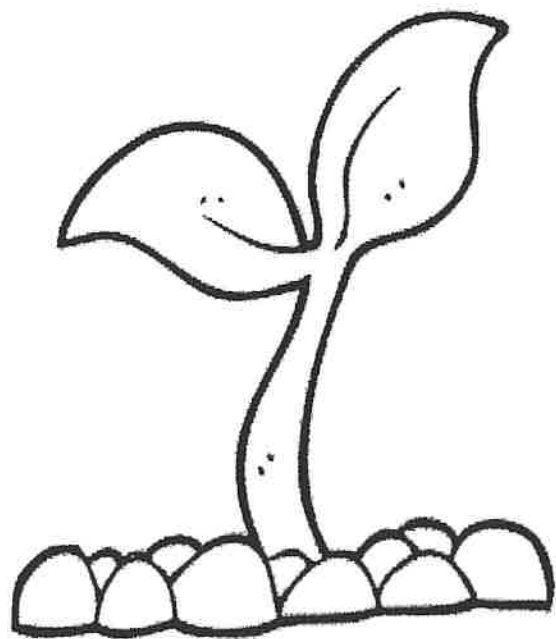




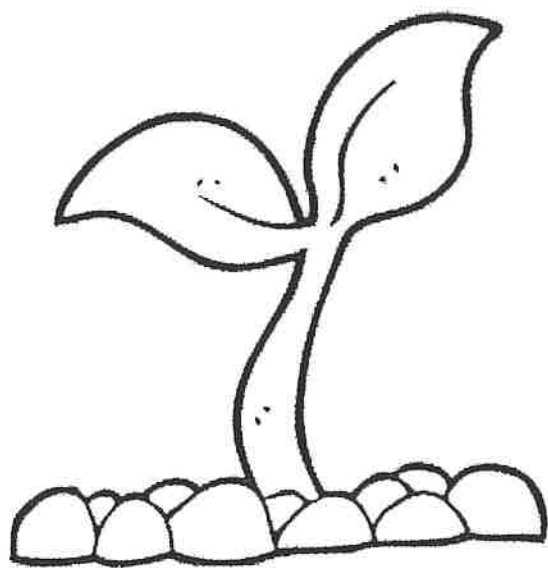
The red bug is on the plant.



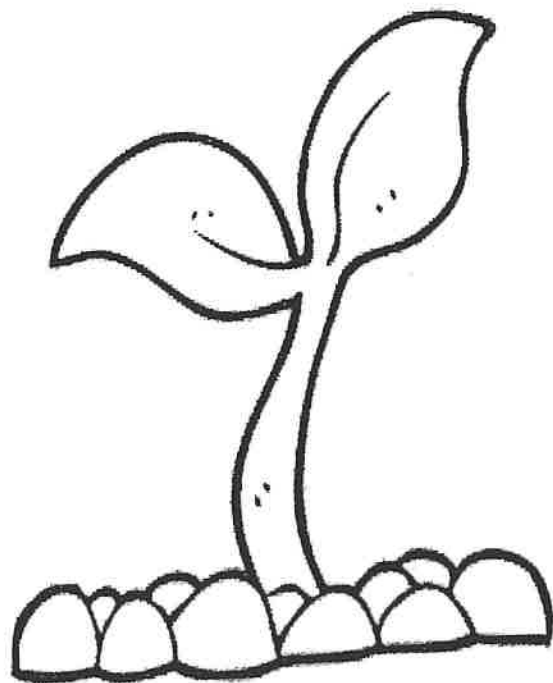
The red bug is on the plant.



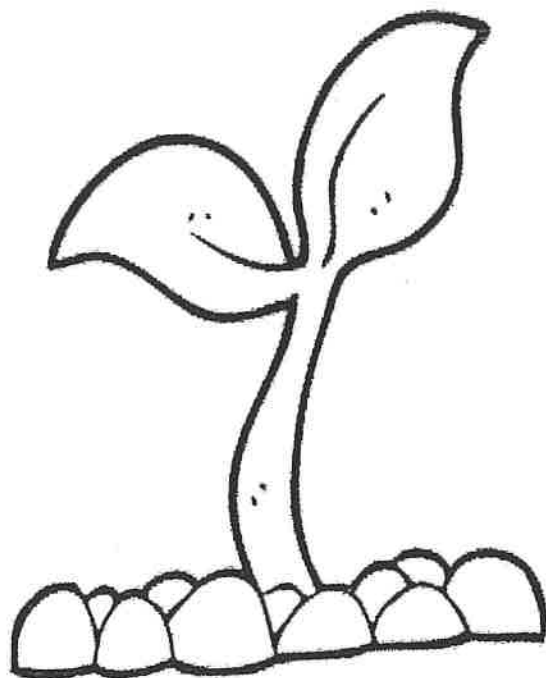
The orange bug is over the plant.



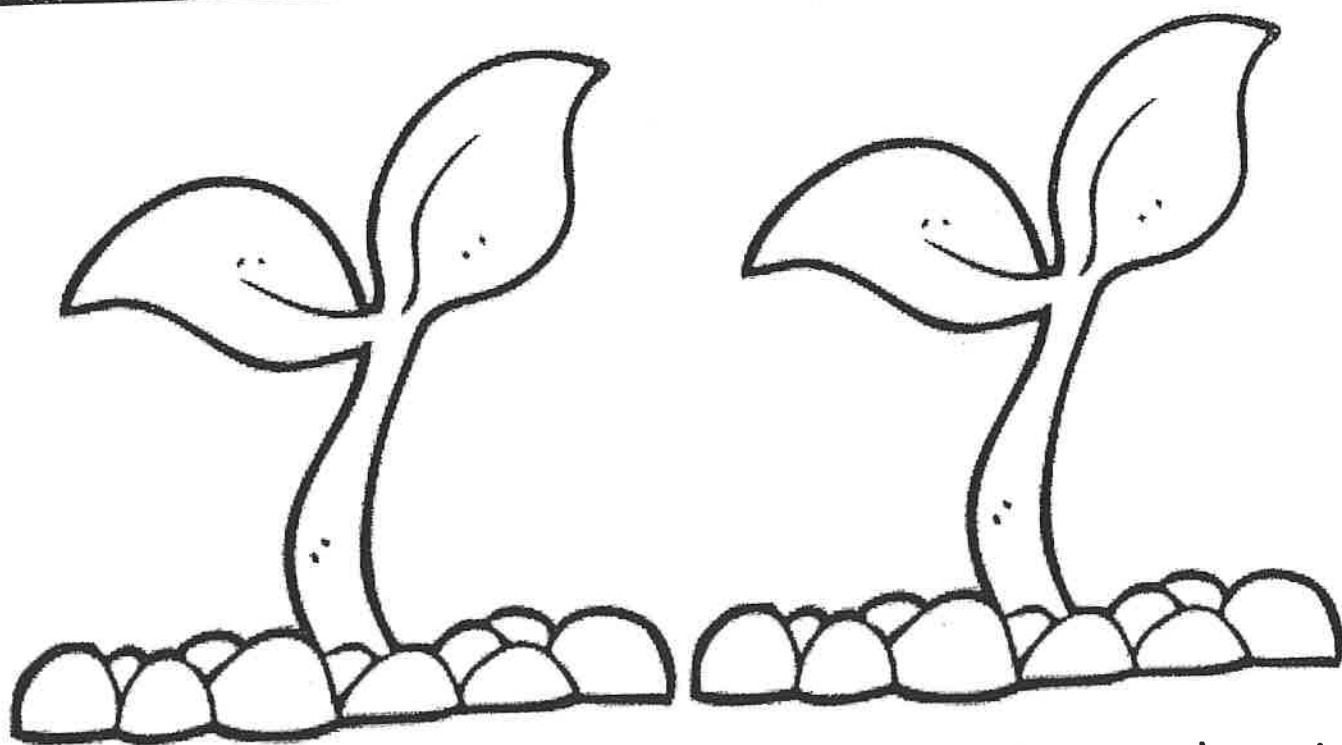
The orange bug is over the plant.



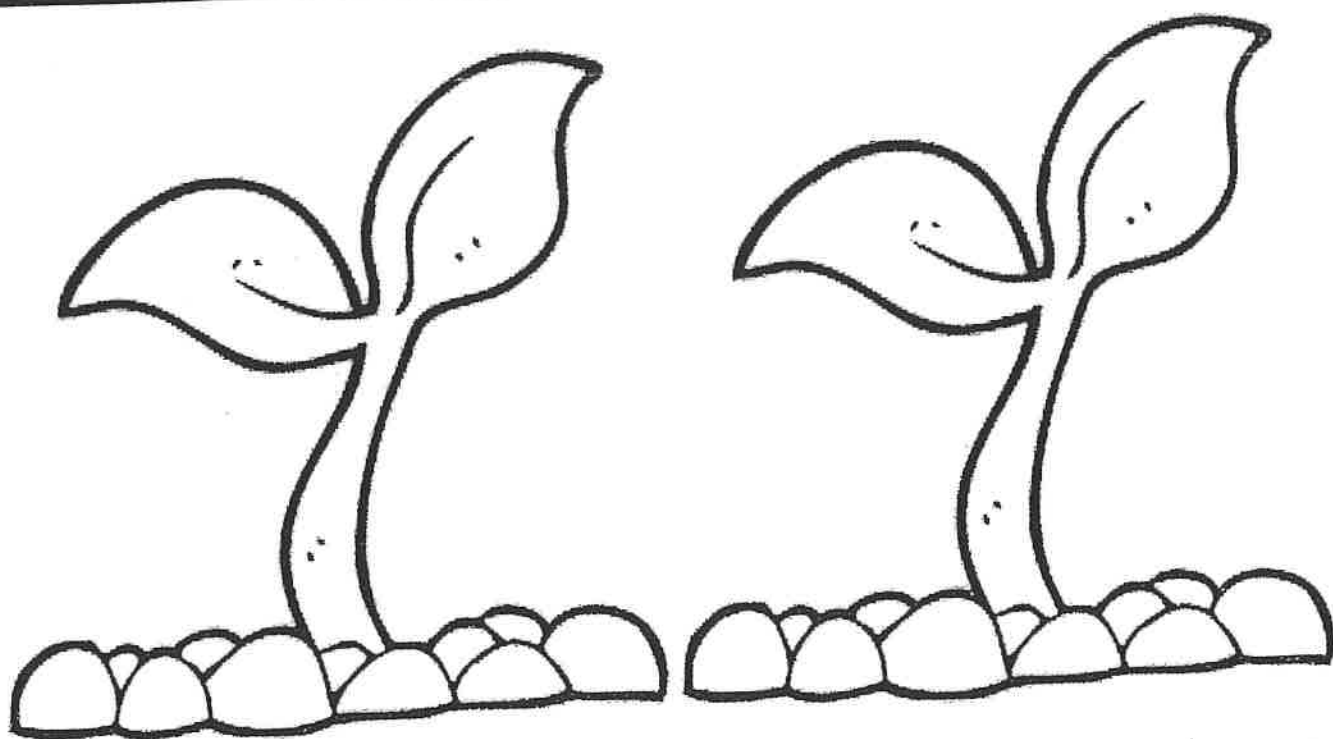
The green bug is beside the plant.



The green bug is beside the plant.



The blue bug is between the plants.



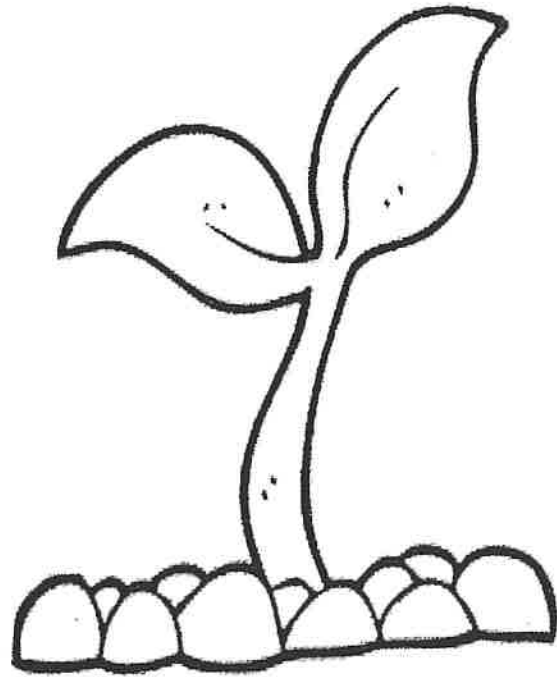
The blue bug is between the plants.



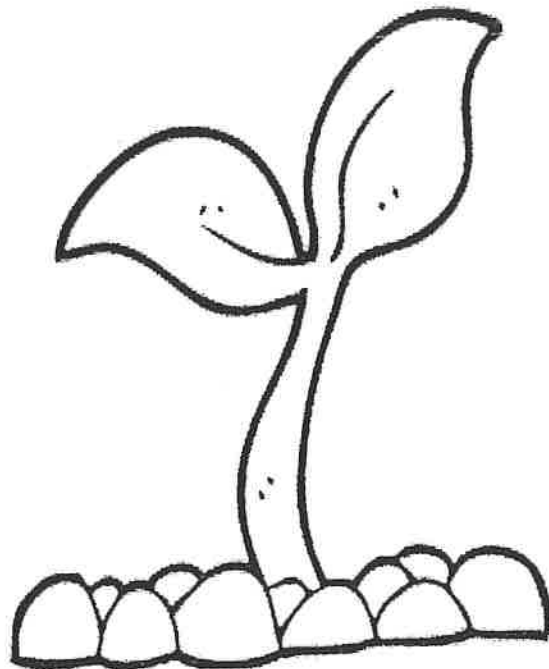
The purple bug is behind the plant.



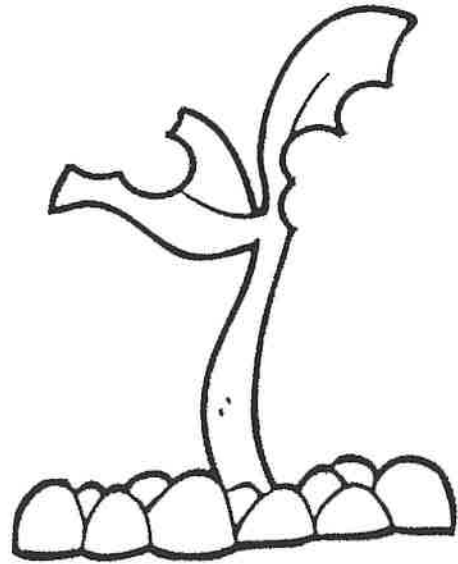
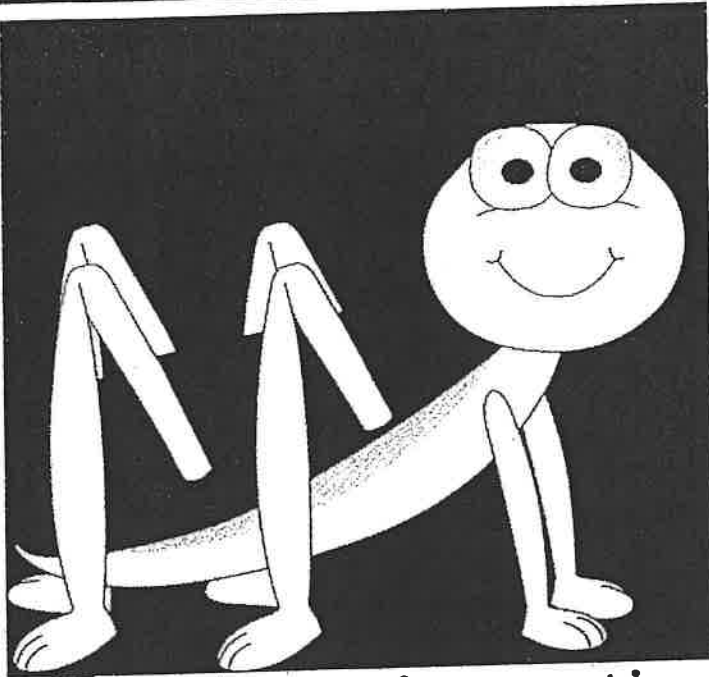
The purple bug is behind the plant.



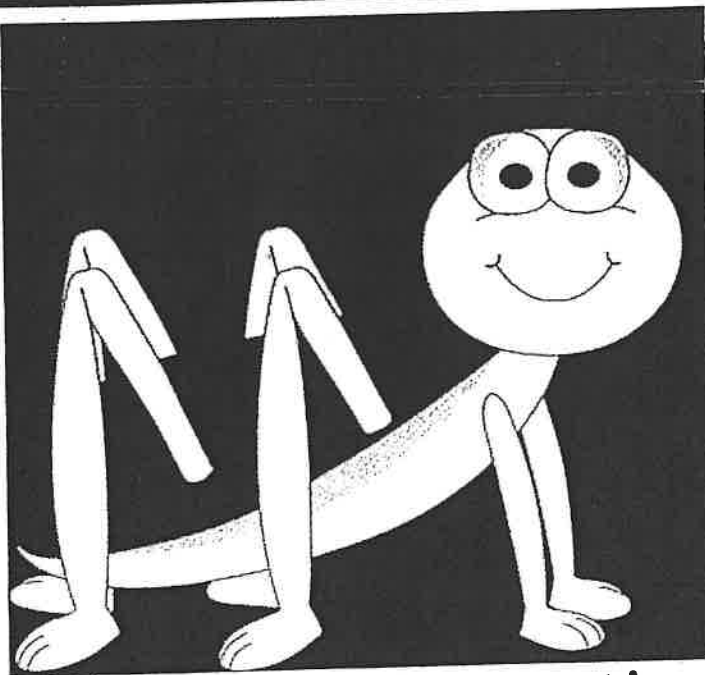
The pink bug is in the dirt.



The pink bug is in the dirt.

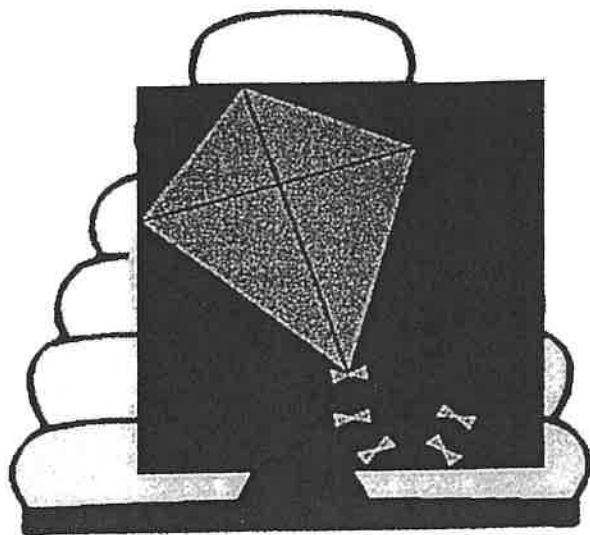
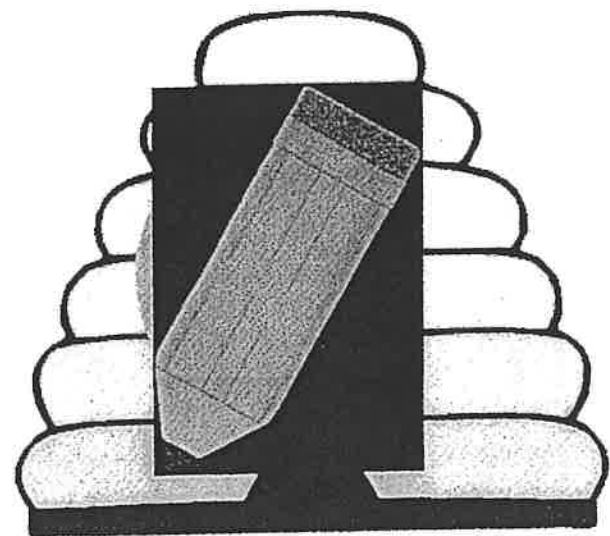
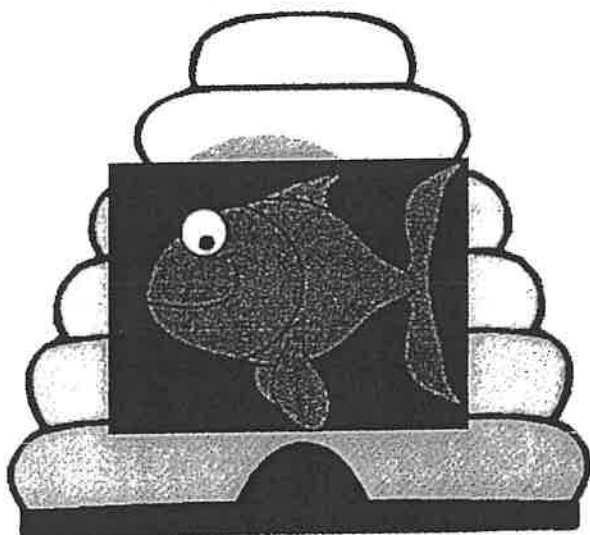
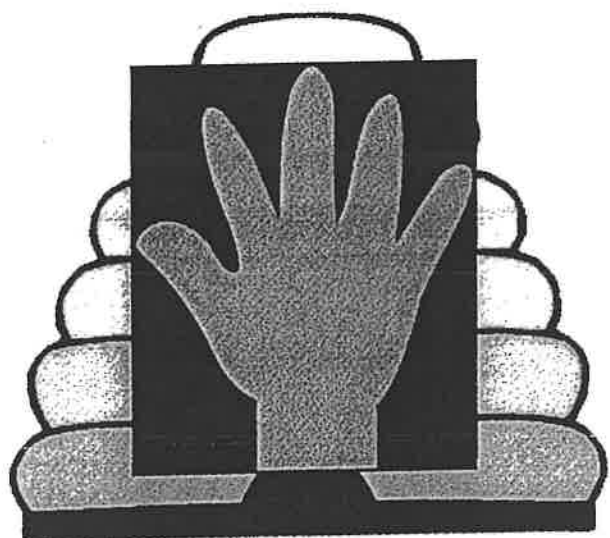
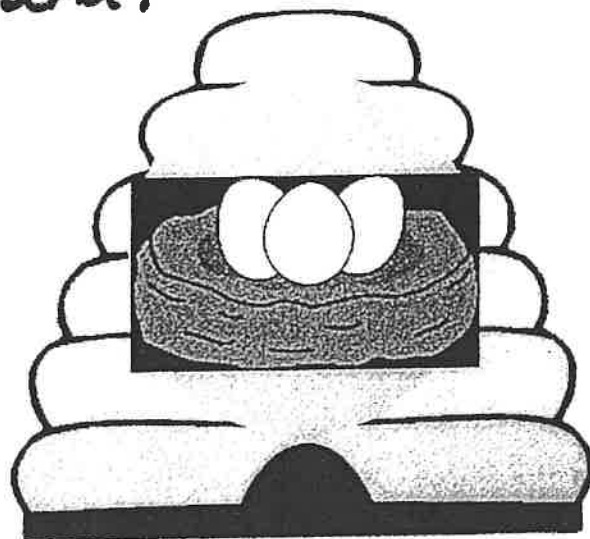
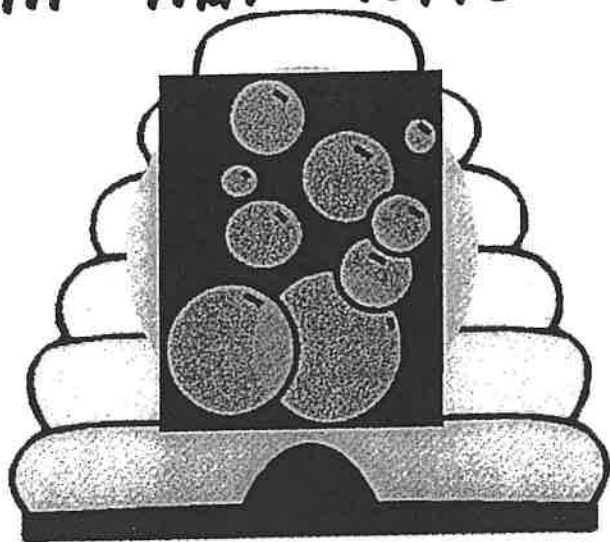


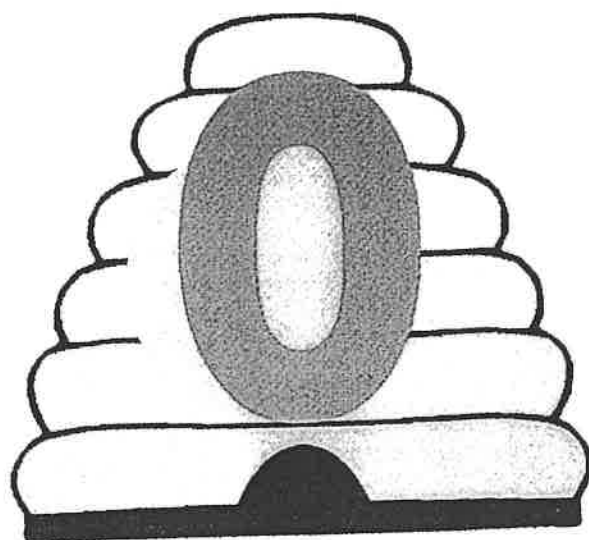
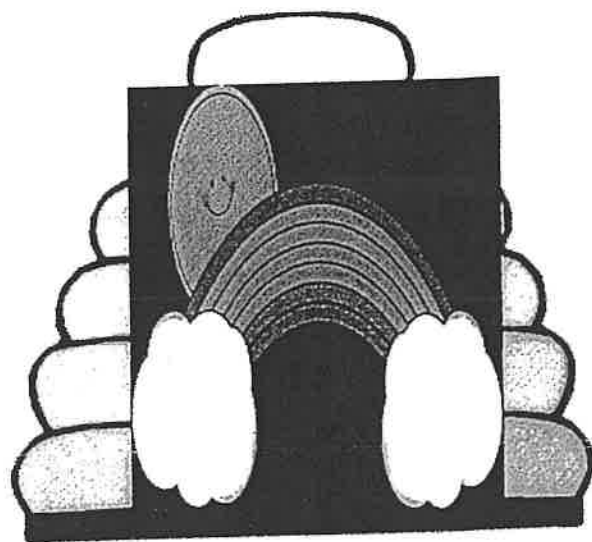
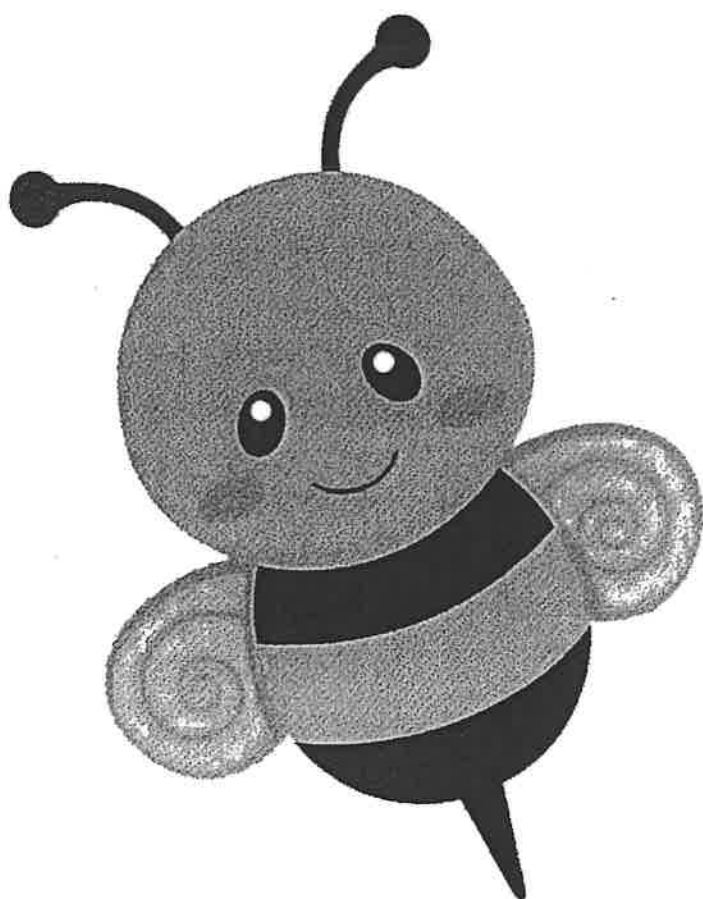
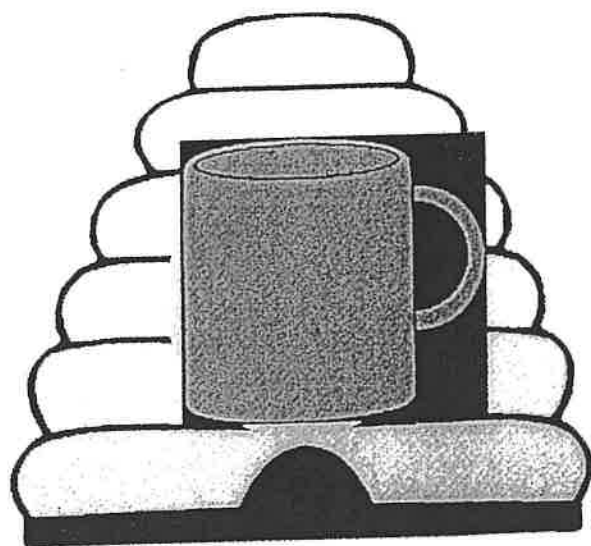
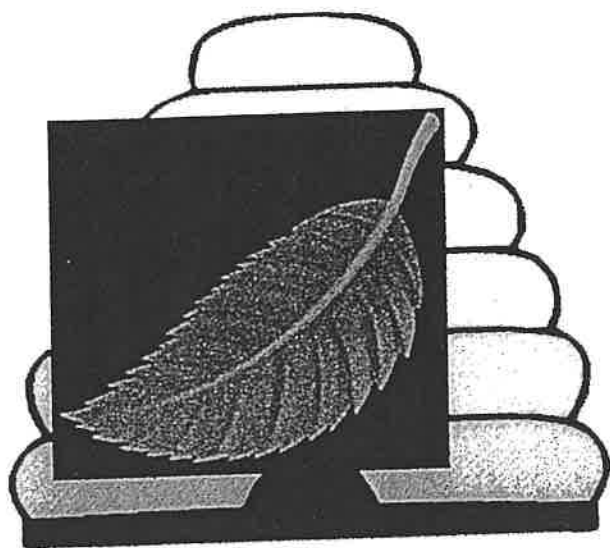
The bug is eating the plant for lunch- crunch, crunch, crunch!

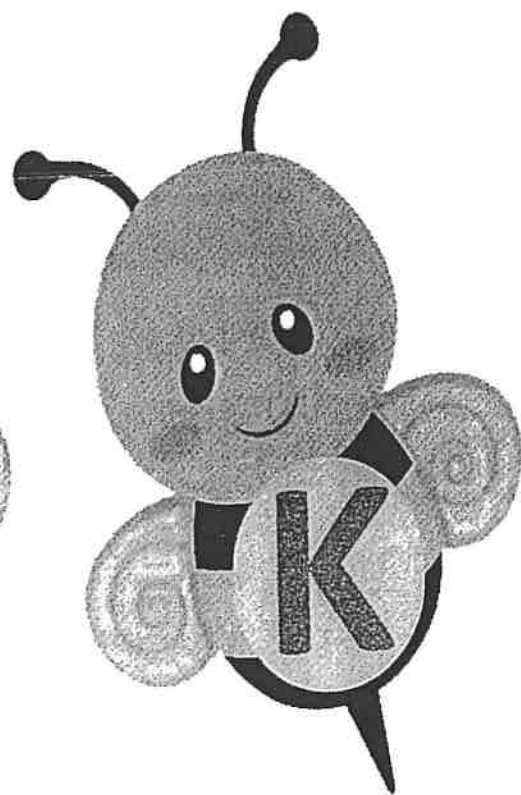
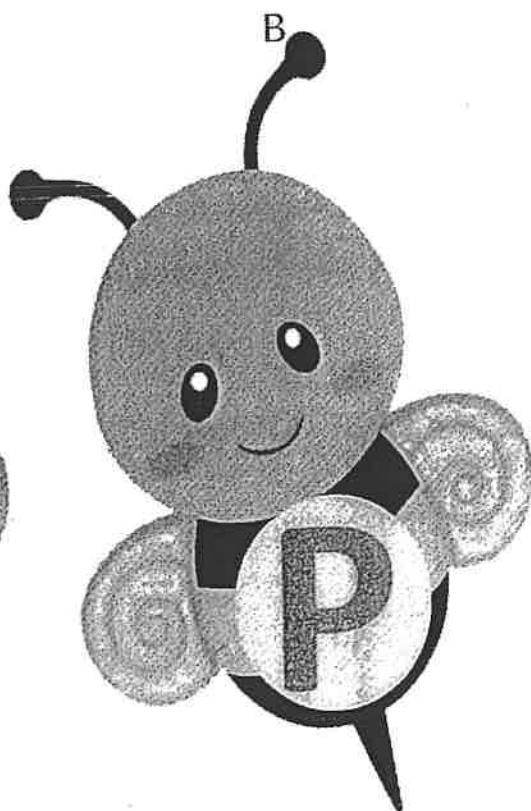
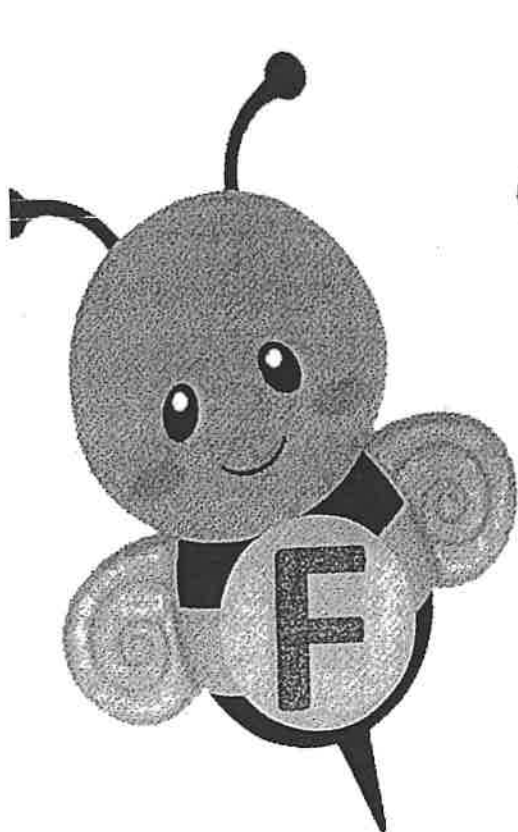
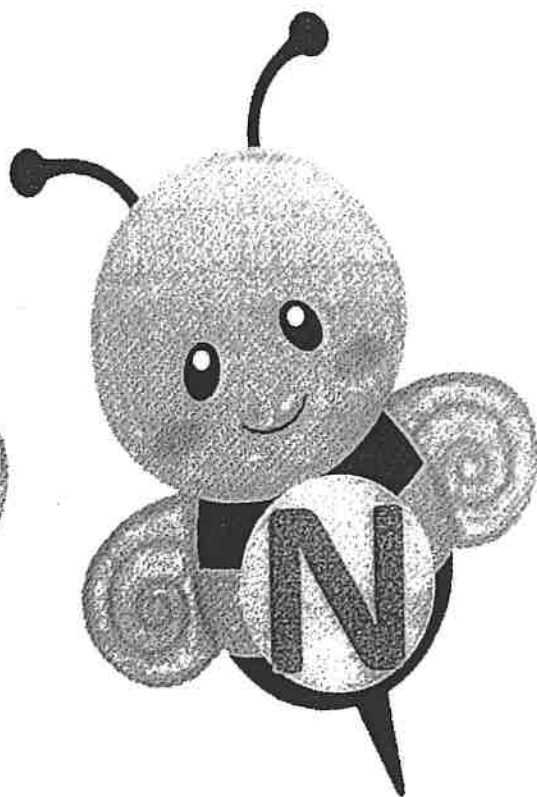
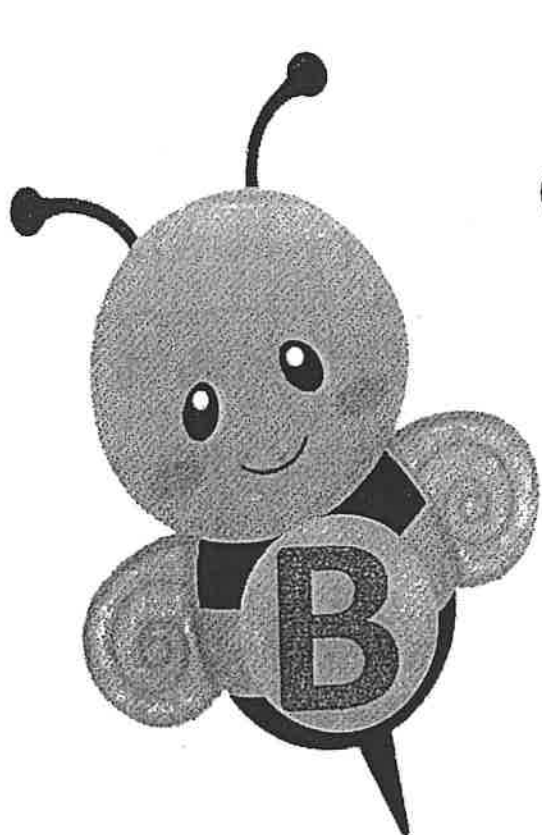


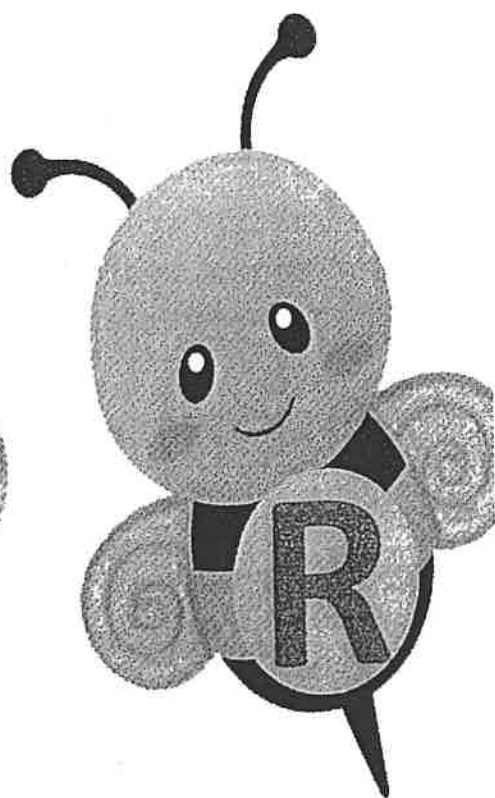
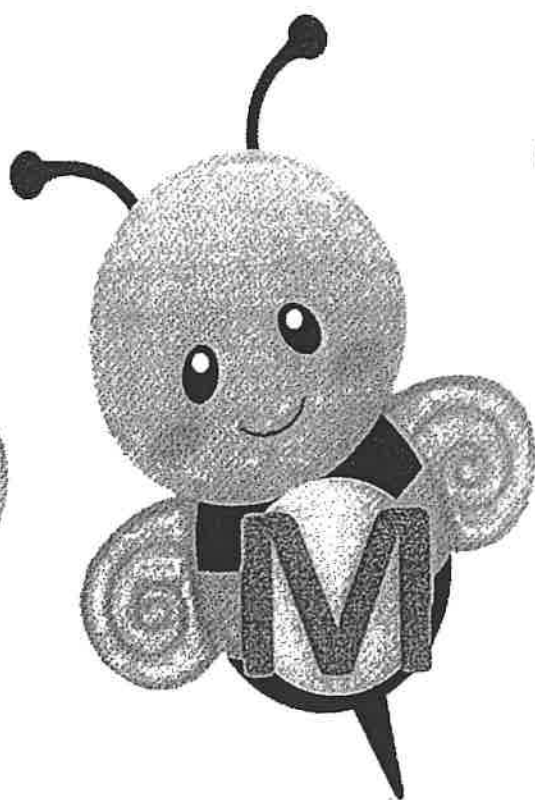
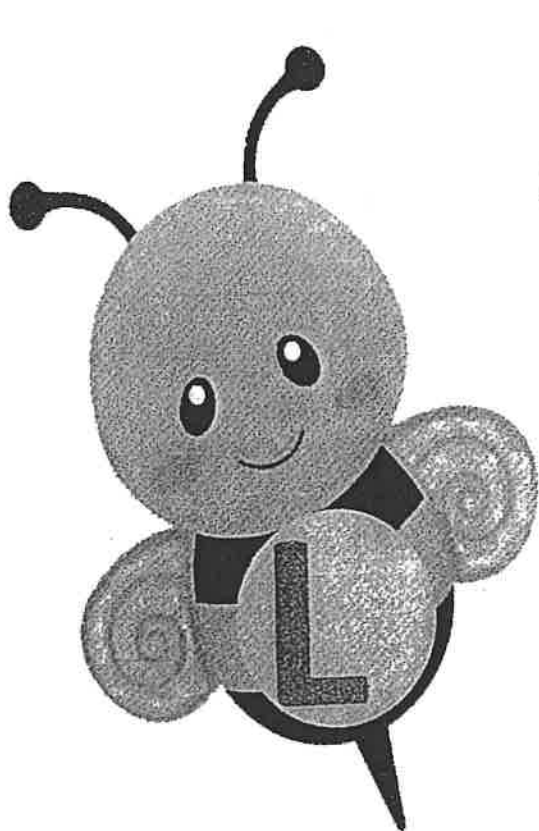
The bug is eating the plant for lunch- crunch, crunch, crunch!

Match up letter to pictures that begin
With that letter sound.





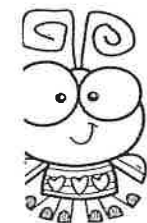
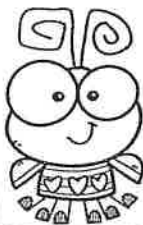




Name: _____

LOVE BUG LETTERS

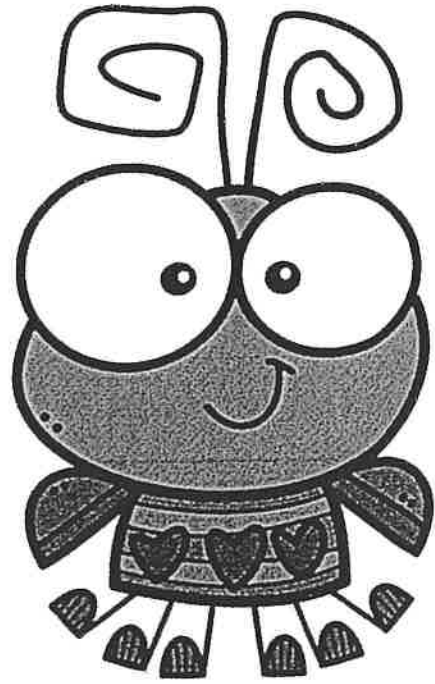
Directions: Walk around the room and look for the love bugs.
Write down the letters that you find!





A

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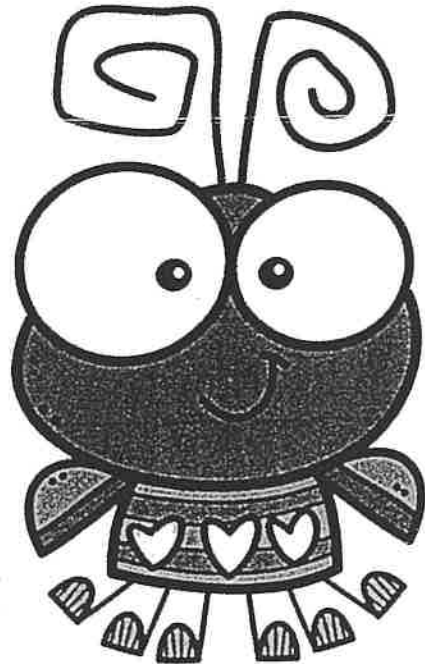
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B

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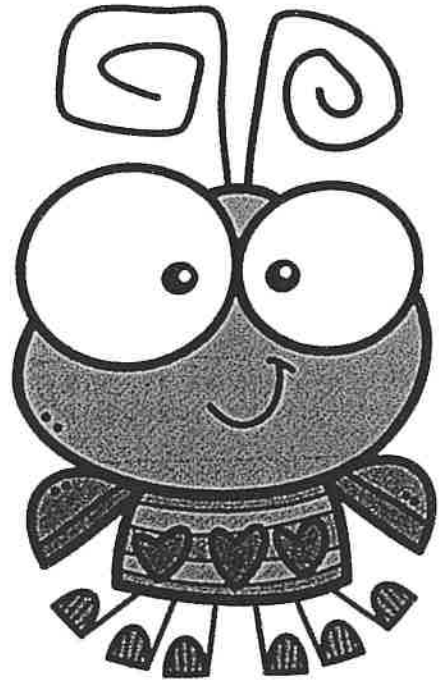
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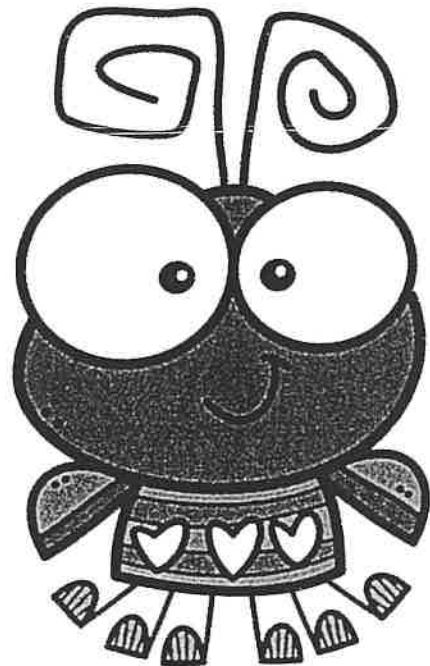
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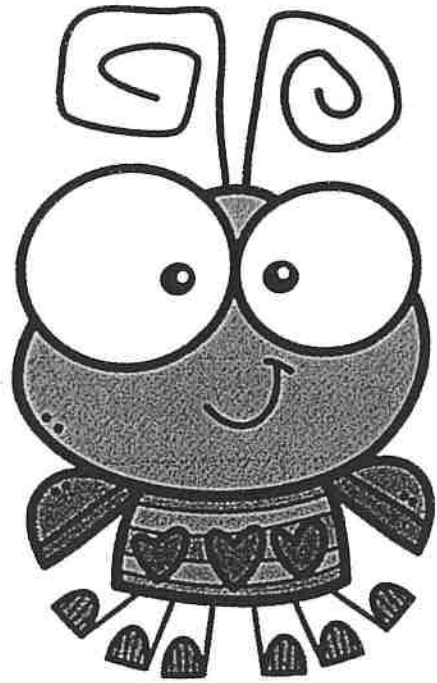
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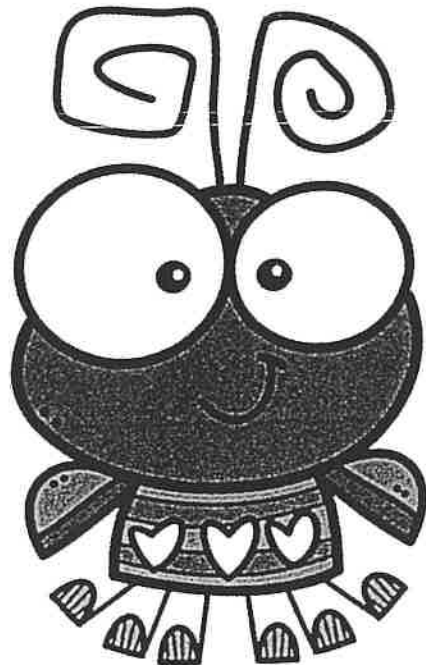
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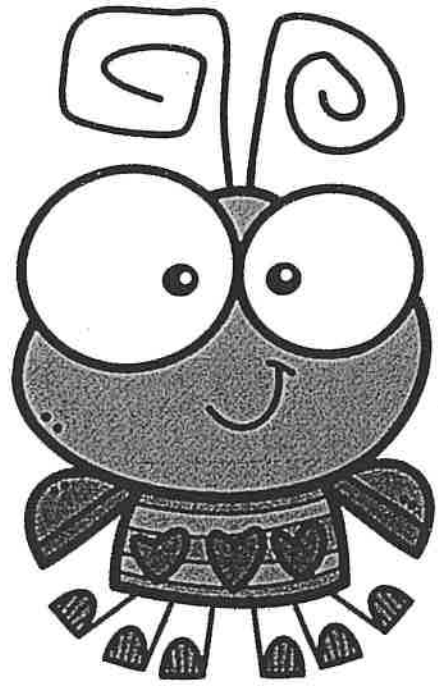
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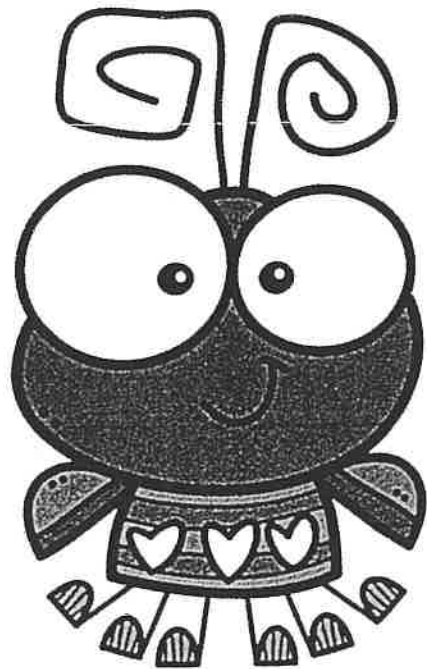
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H

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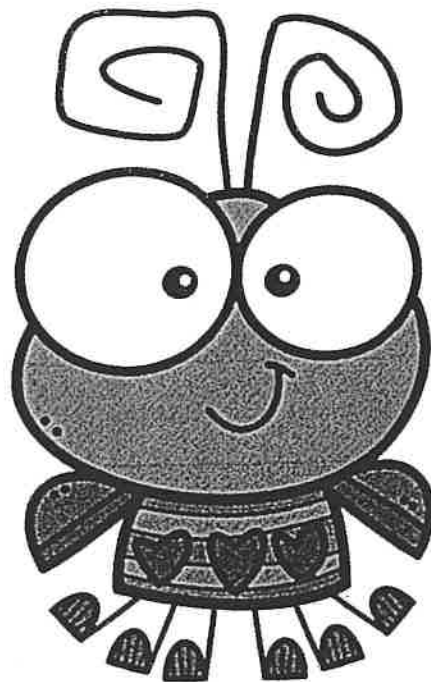
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I

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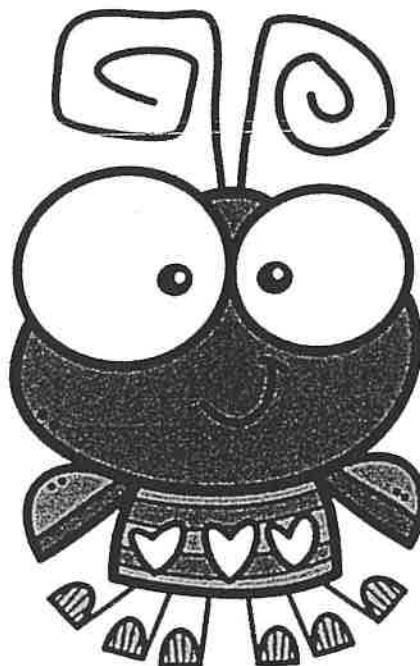
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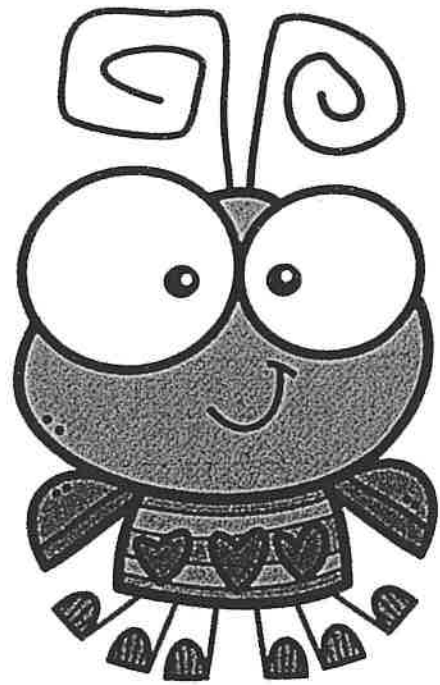


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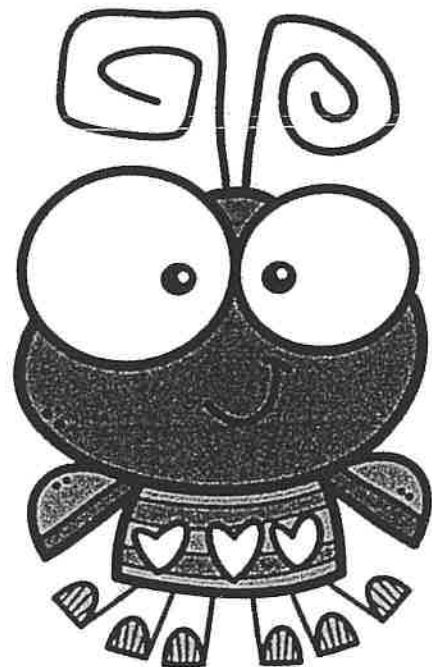
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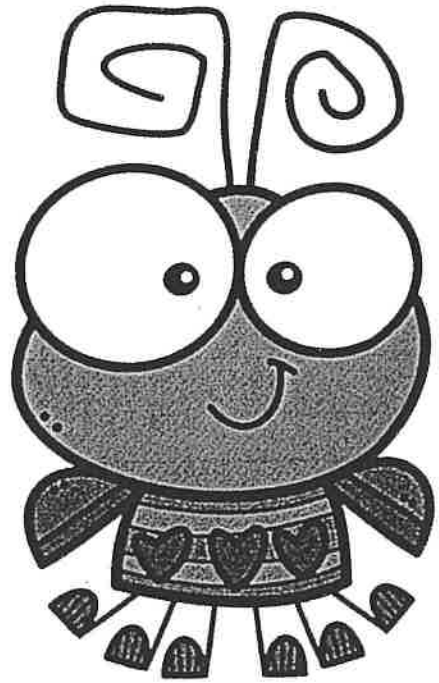
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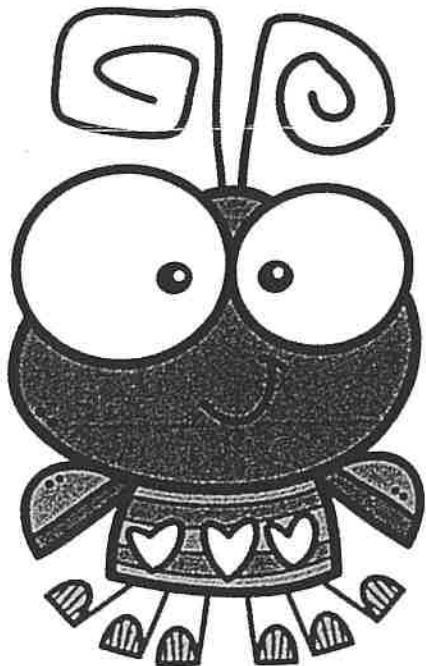
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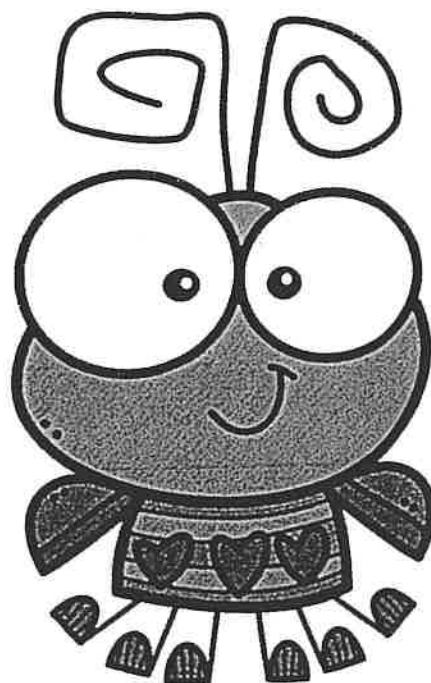


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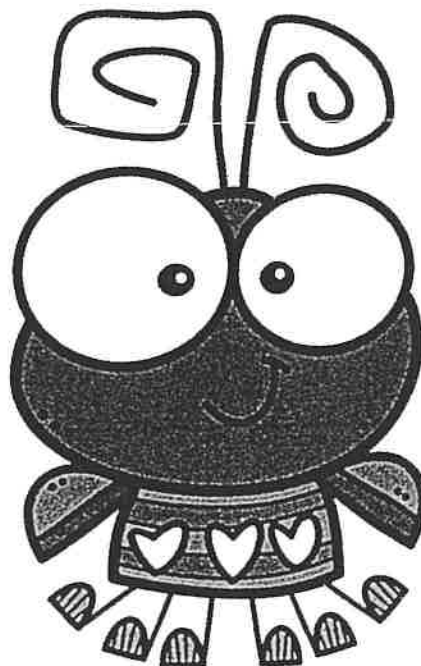
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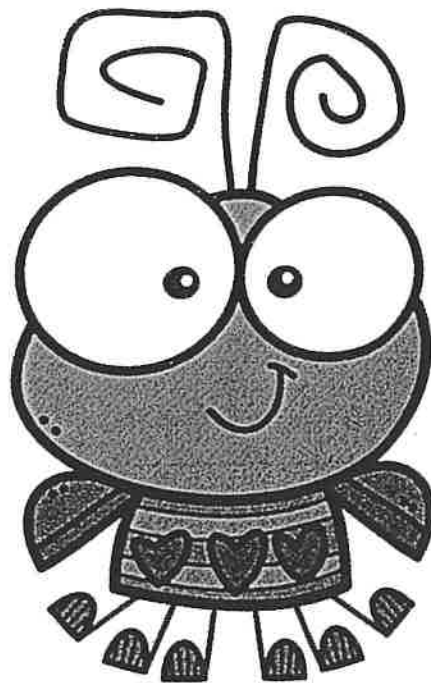
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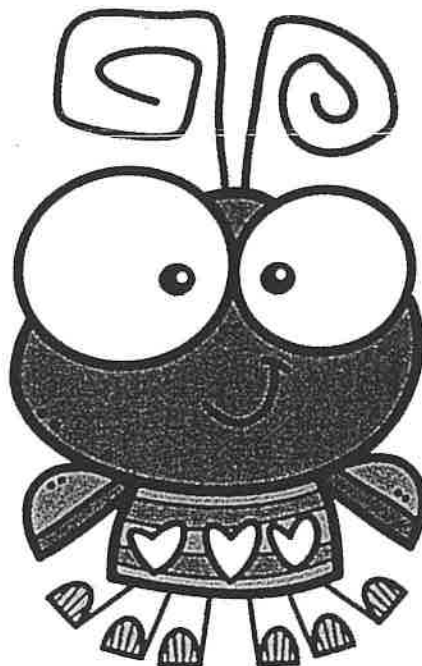
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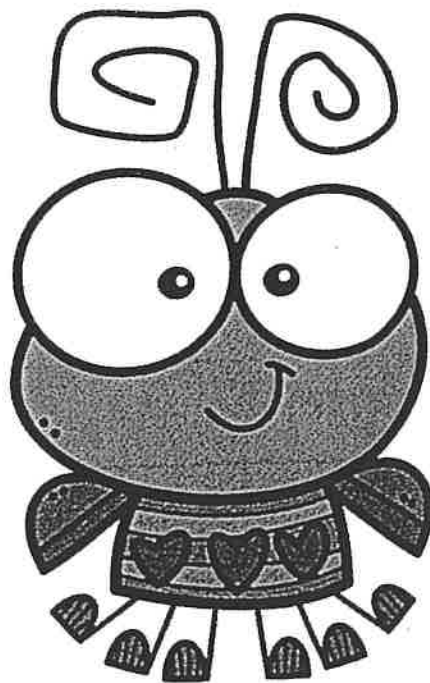
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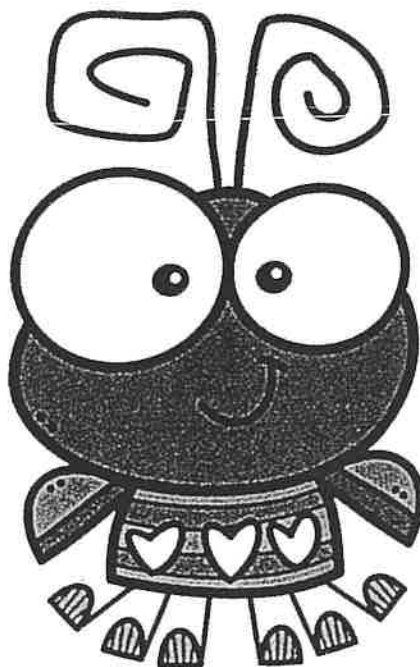
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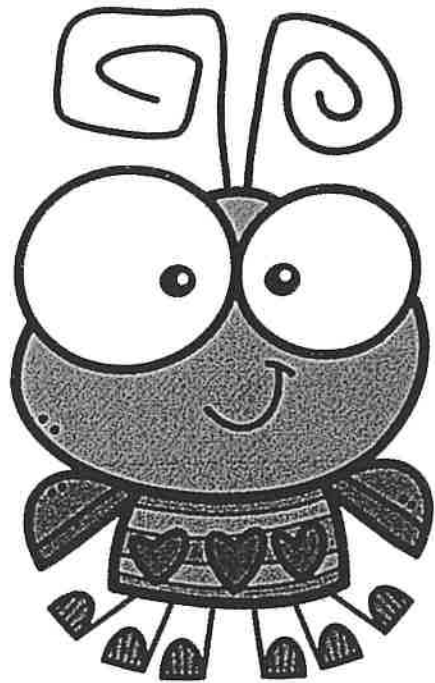
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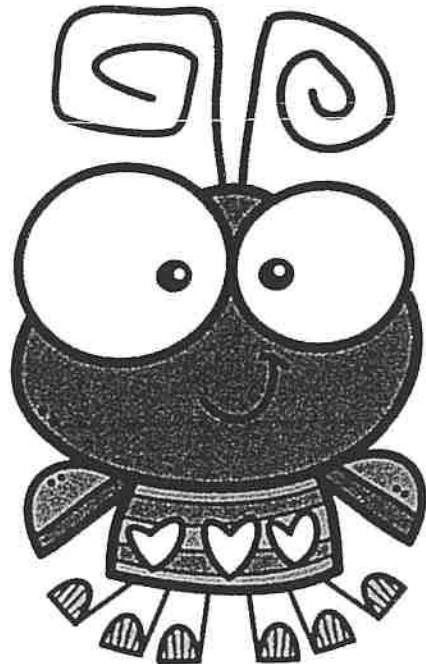
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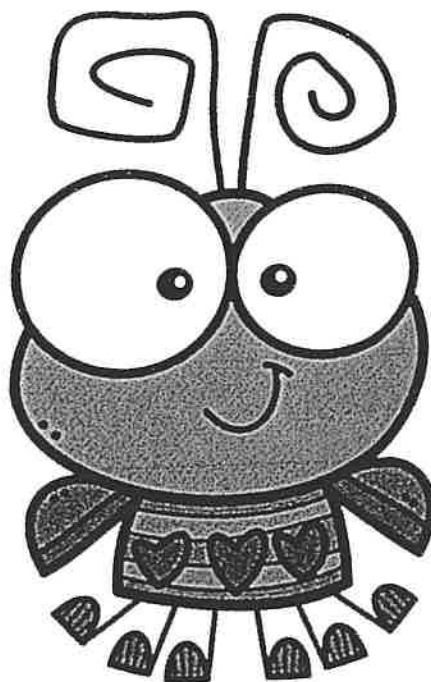
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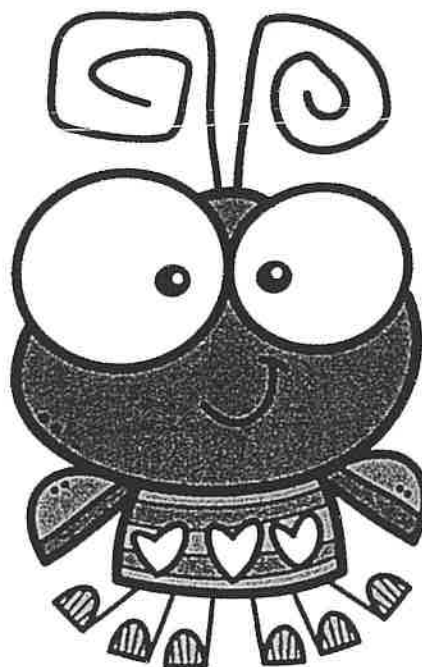
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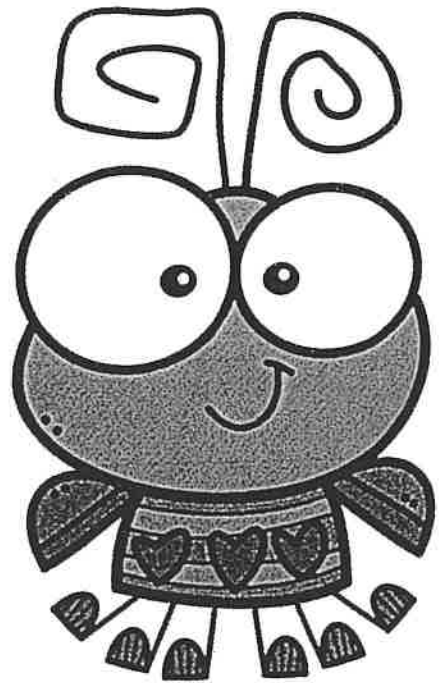
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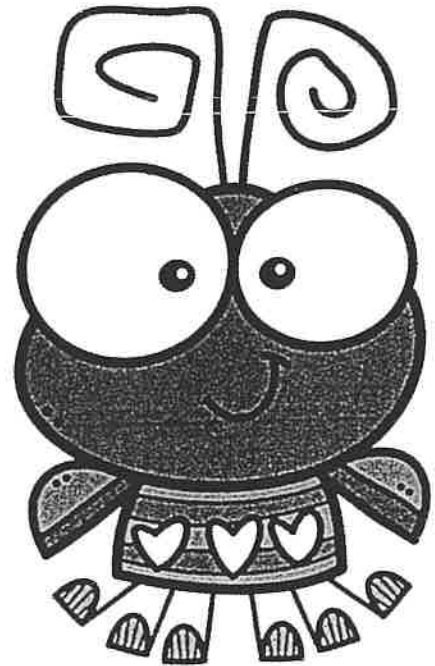


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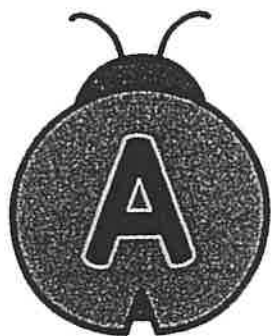


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Match upper and lower case letters.

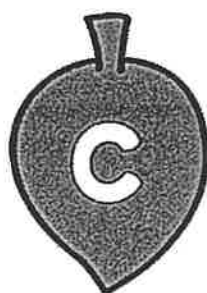
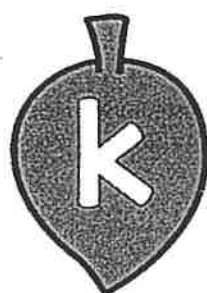
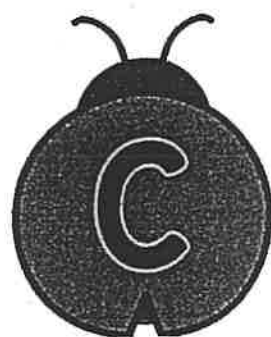
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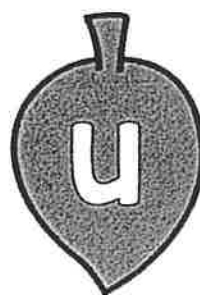
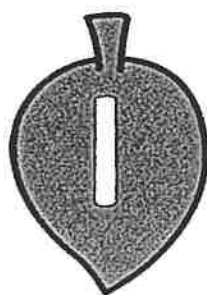
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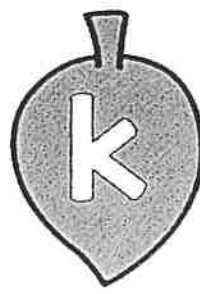
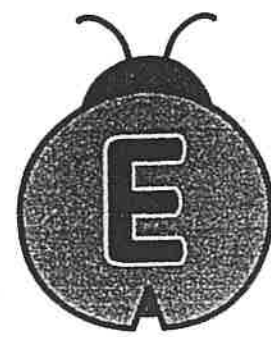
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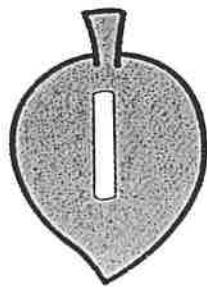
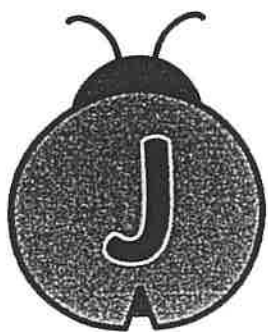
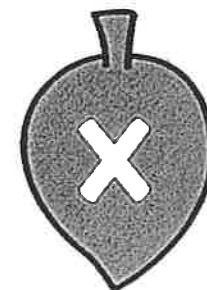
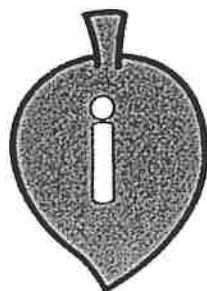


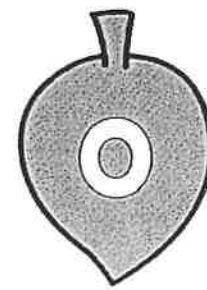
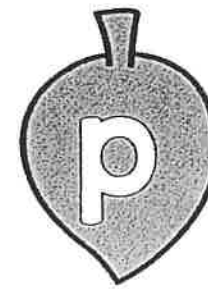
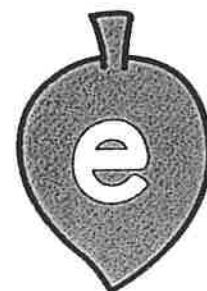
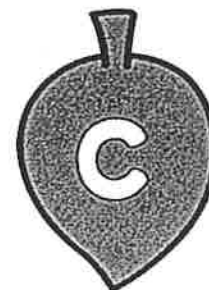
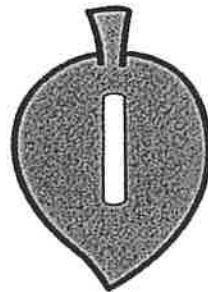
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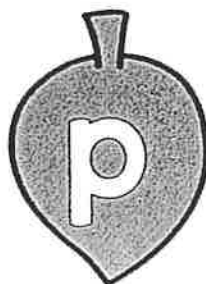
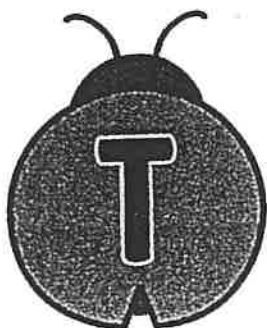
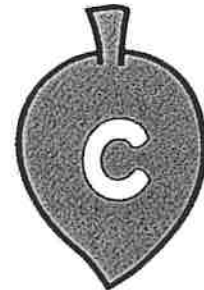
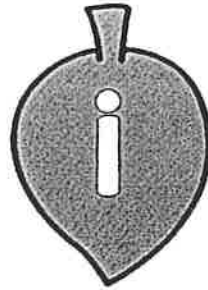
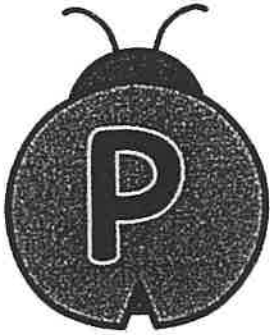


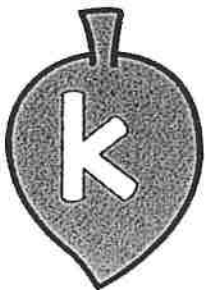
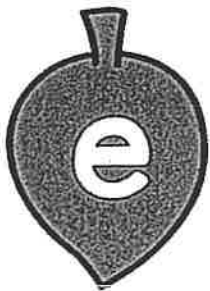
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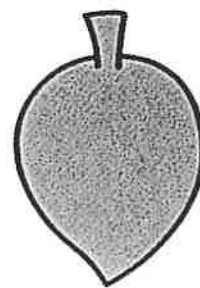
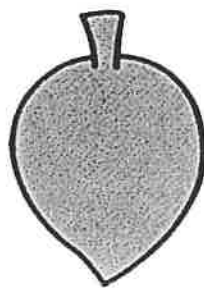
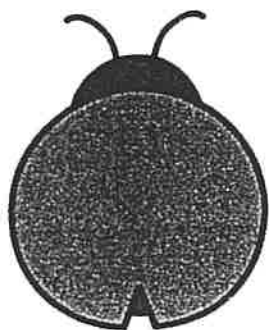
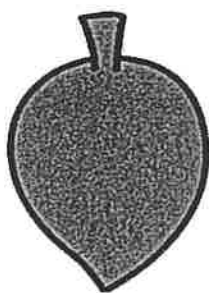




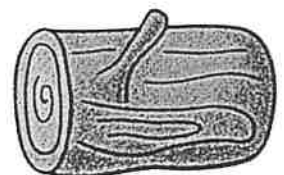
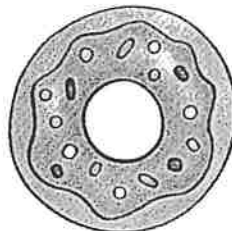
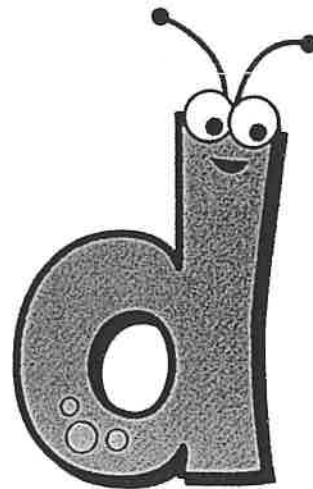
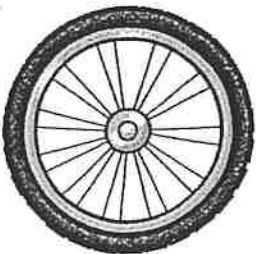
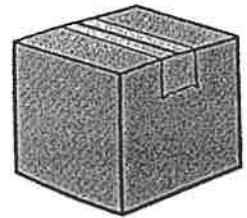
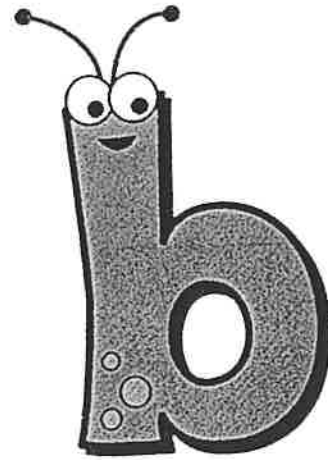
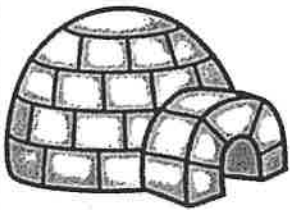
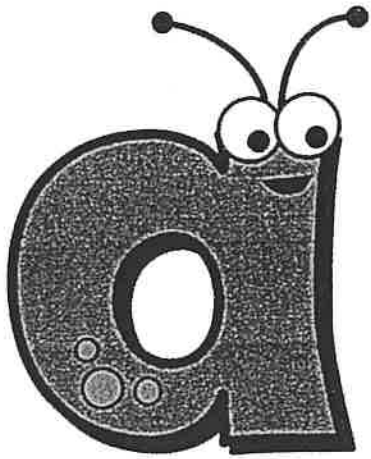


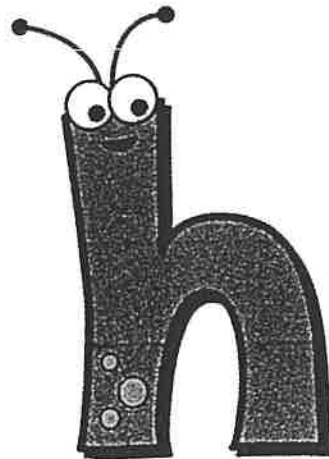
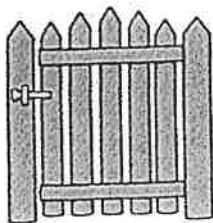
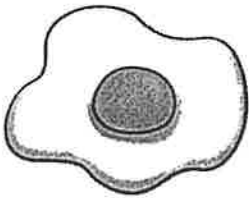
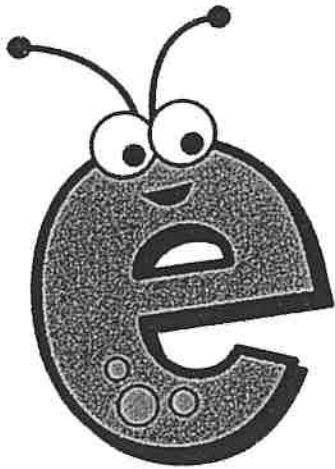


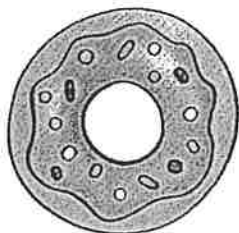
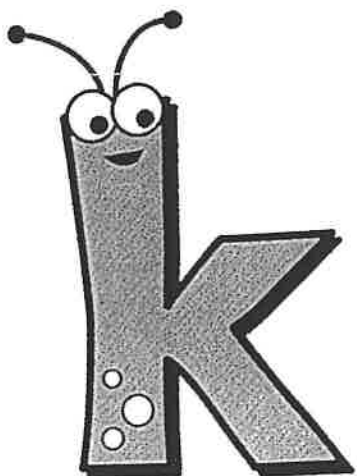
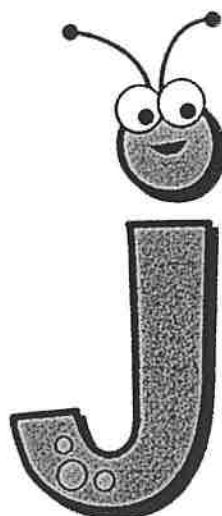
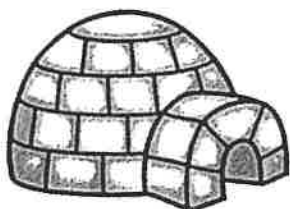


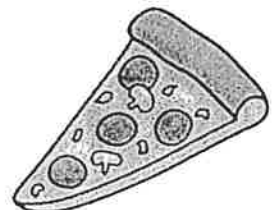
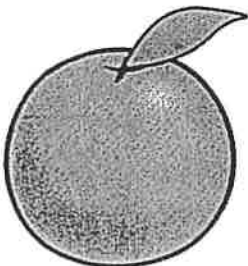
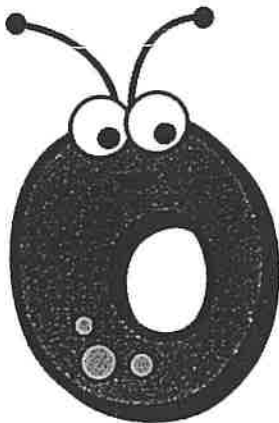
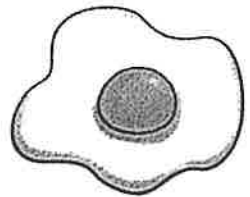
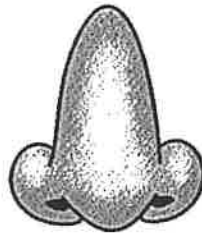
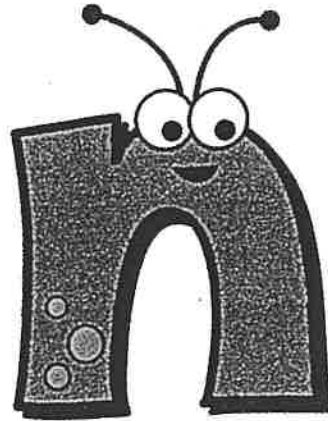
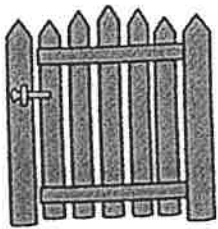
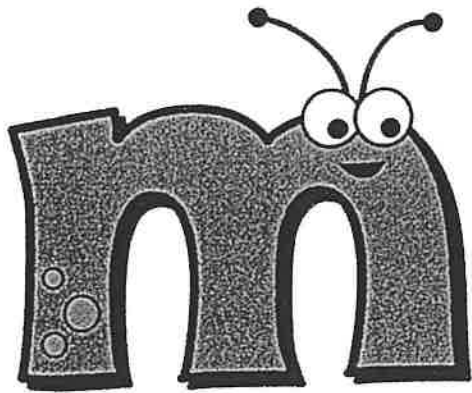


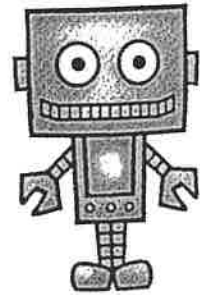
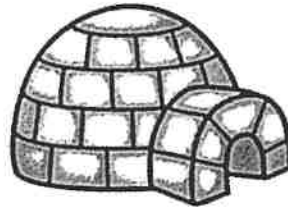
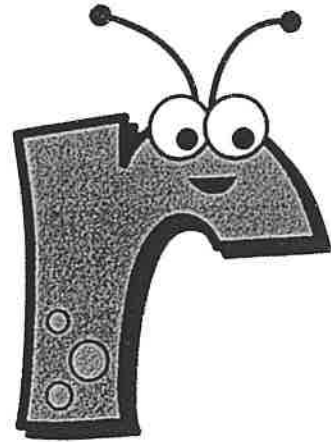
Circle picture that matches letter sound

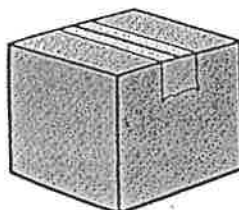
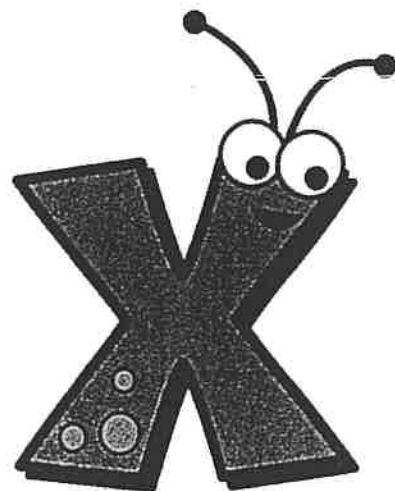
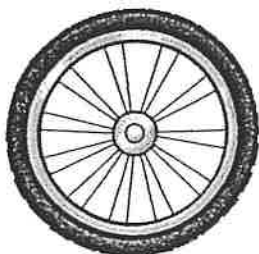
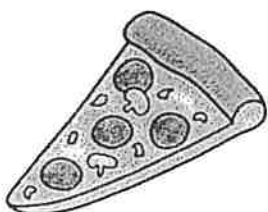
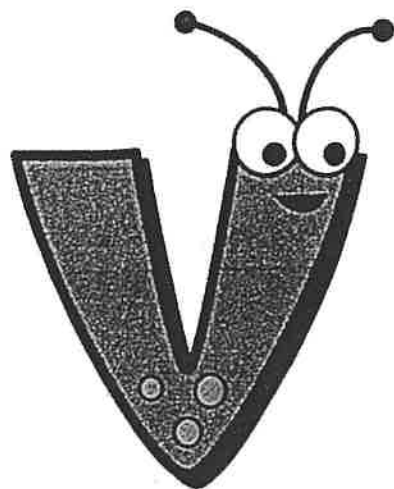
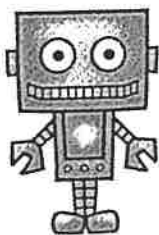
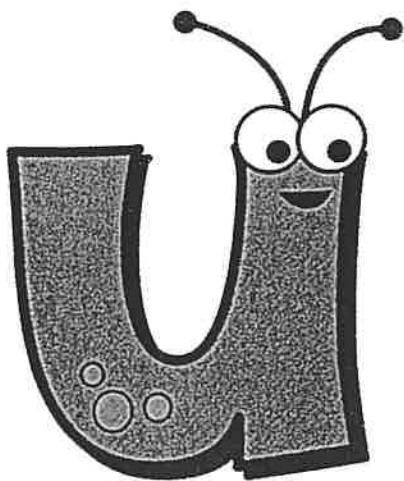


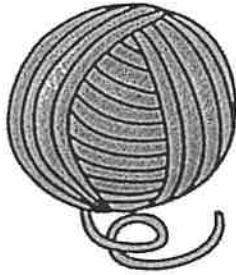
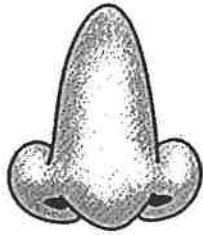






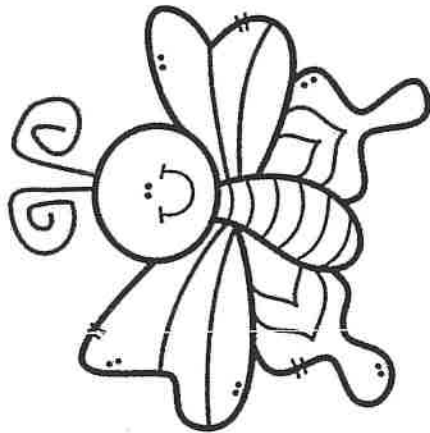
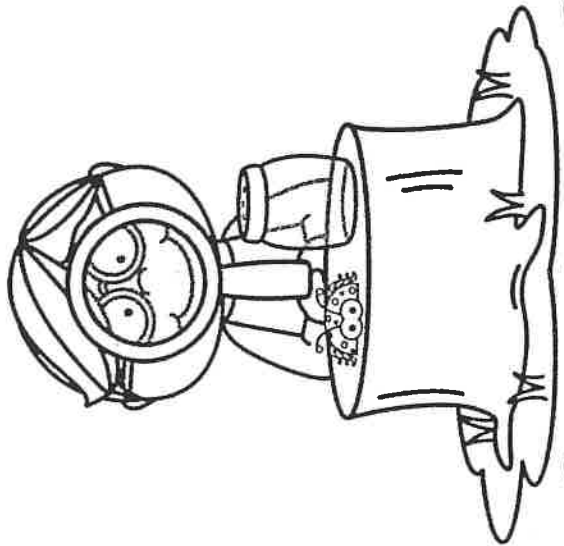




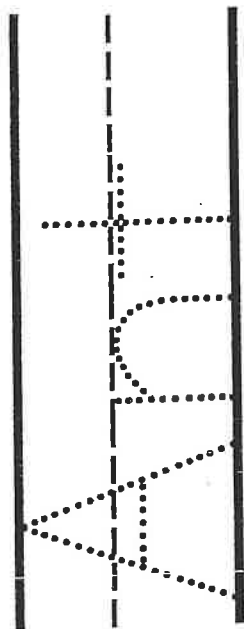
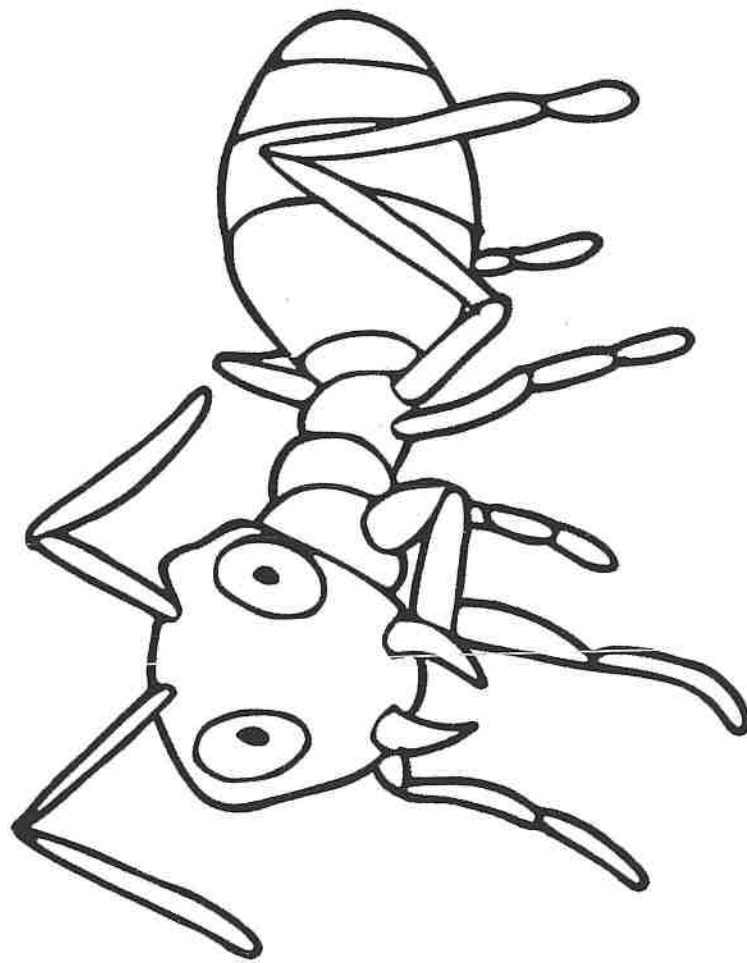


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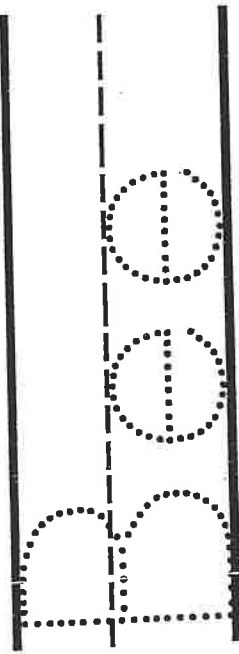
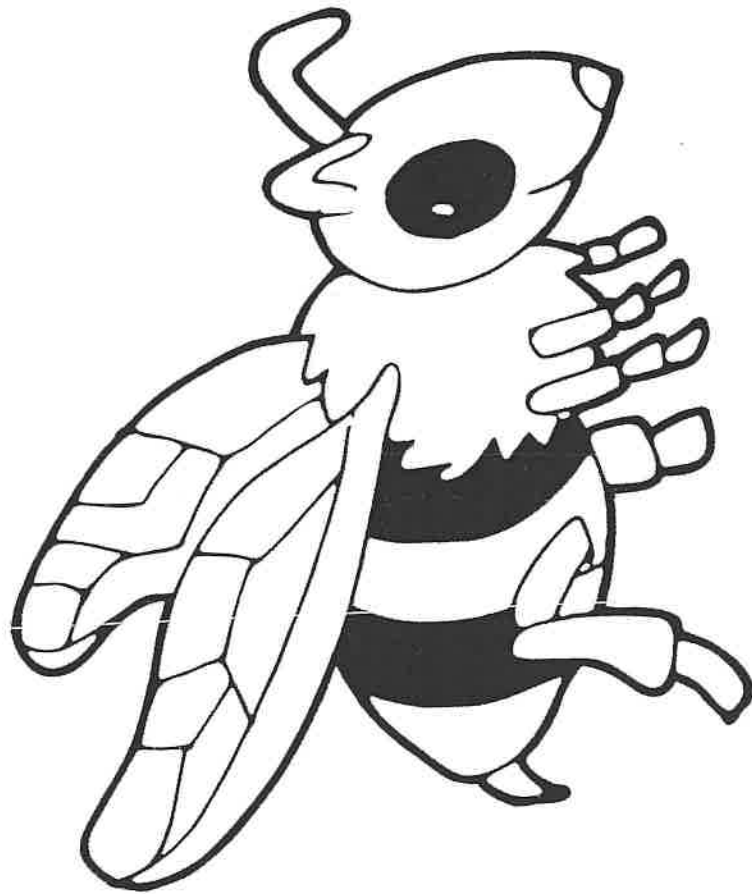
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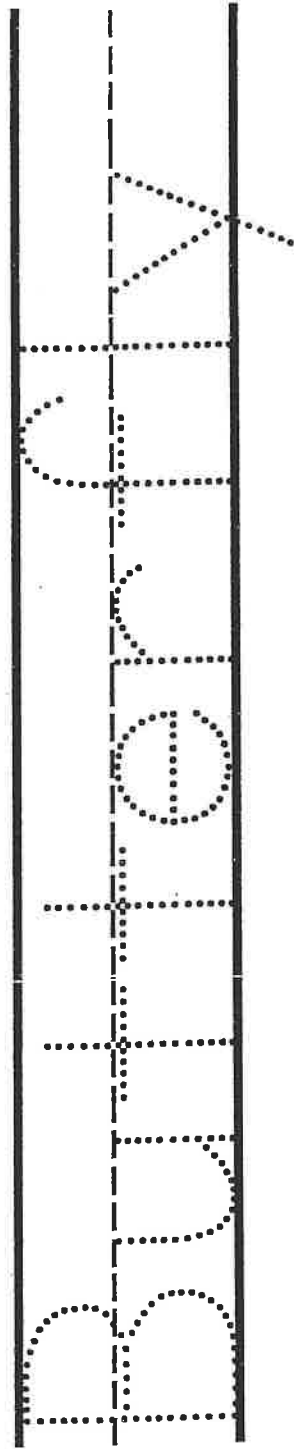
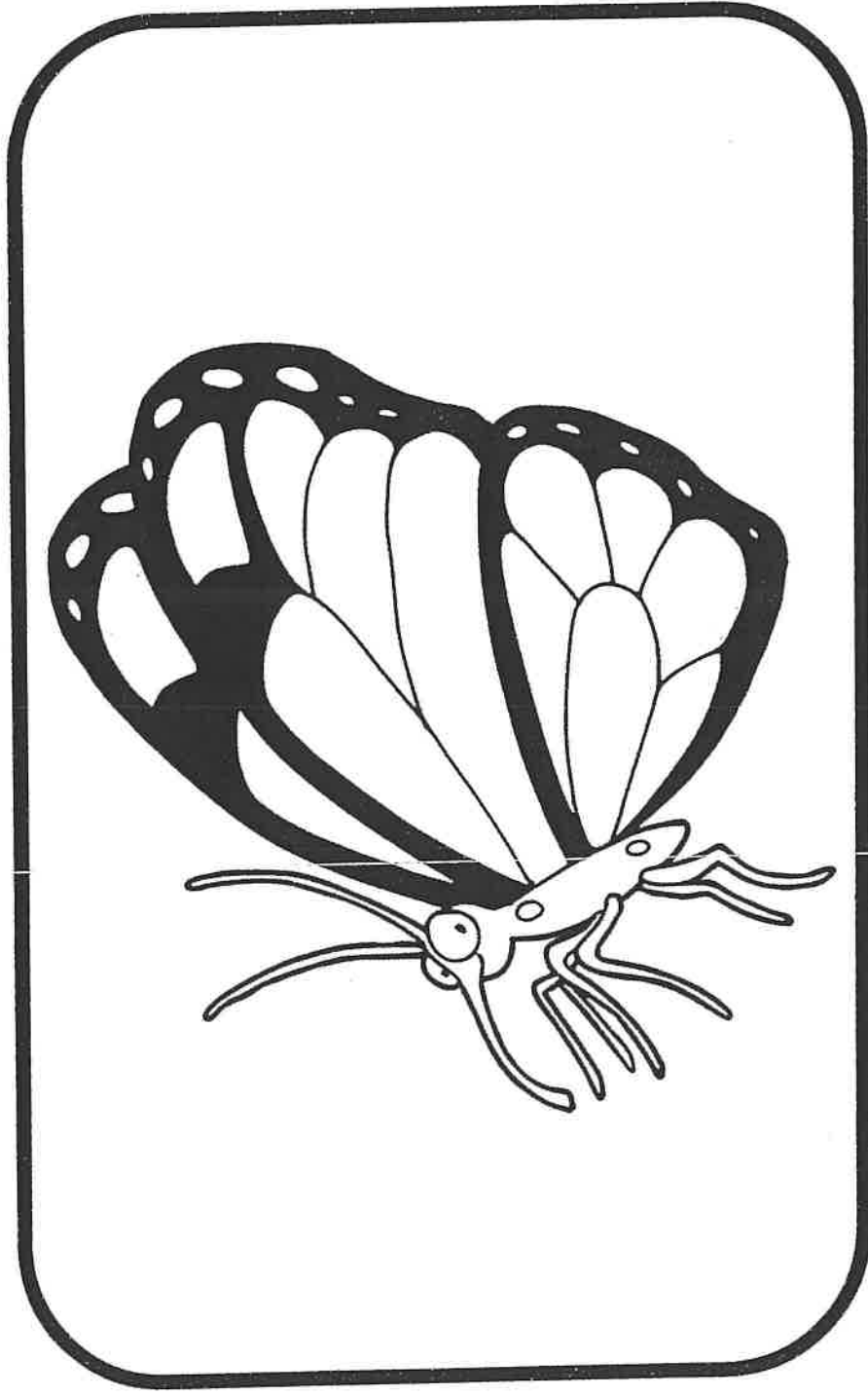
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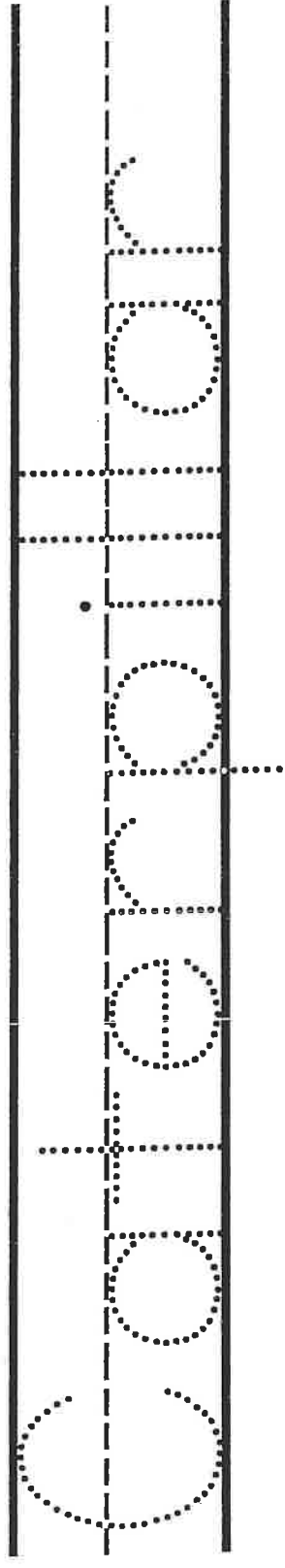
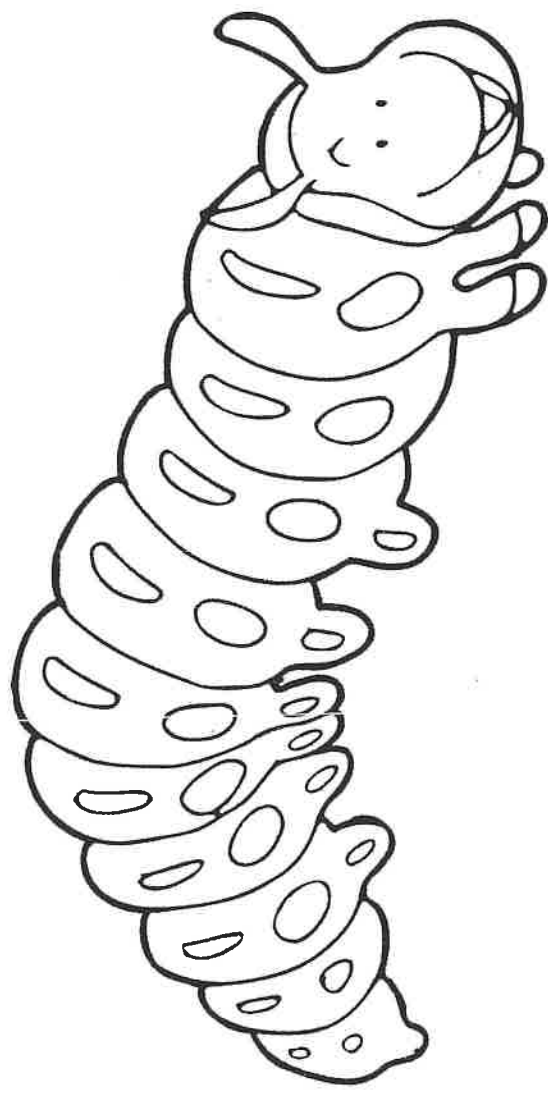
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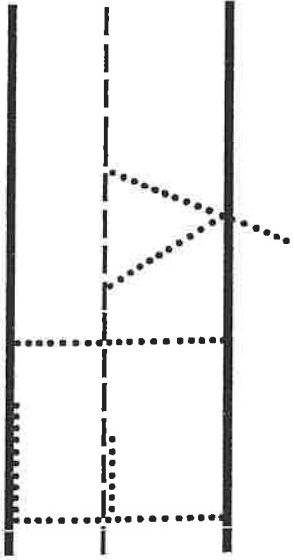
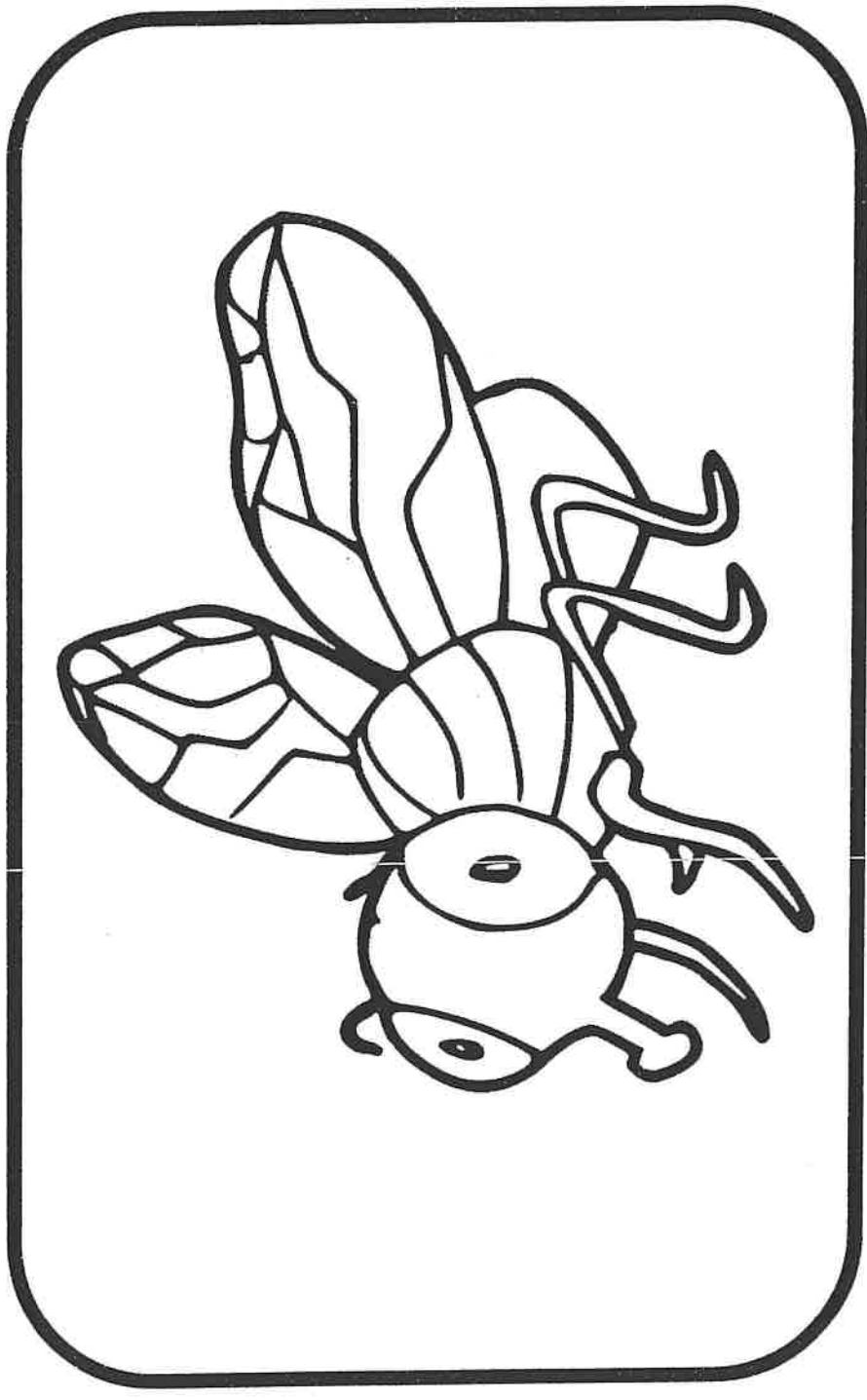
By: _____



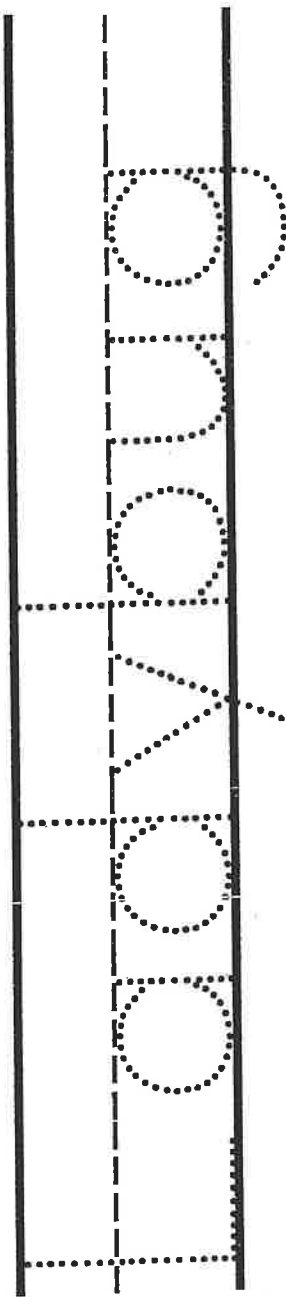
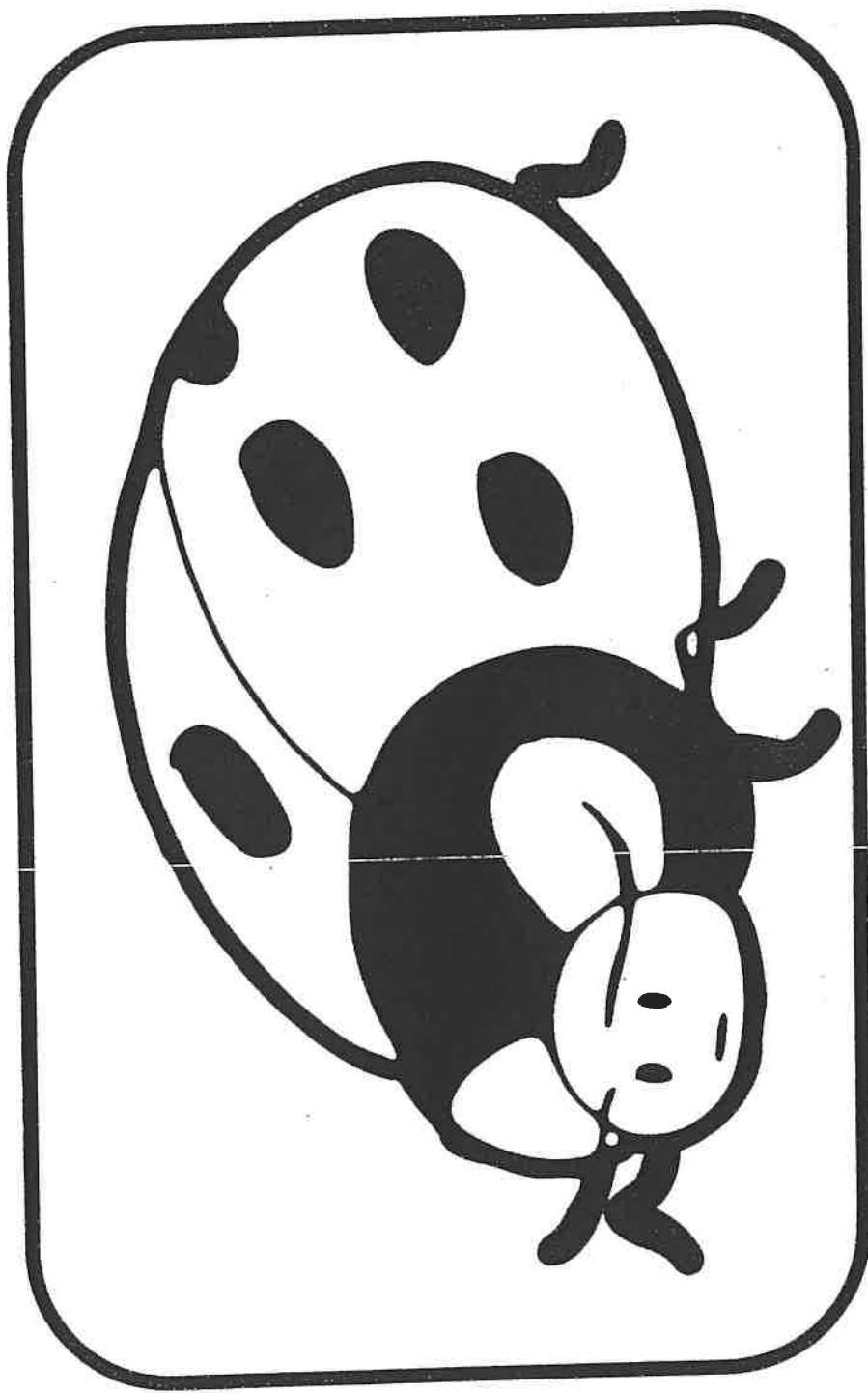
By: _____



By: _____



By: _____



Math Activities

1 2 3 4 5

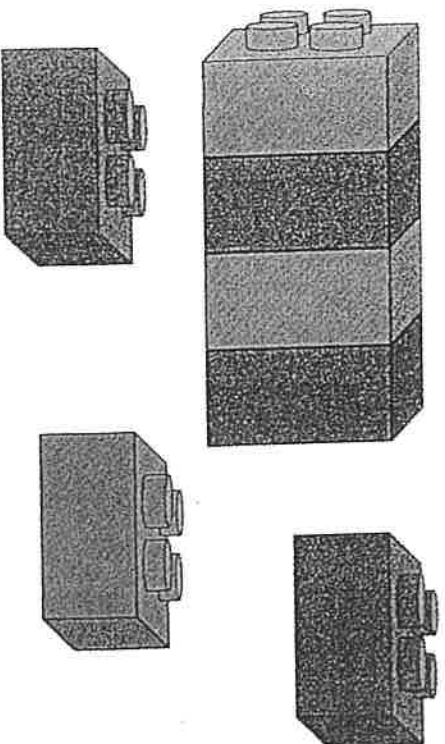
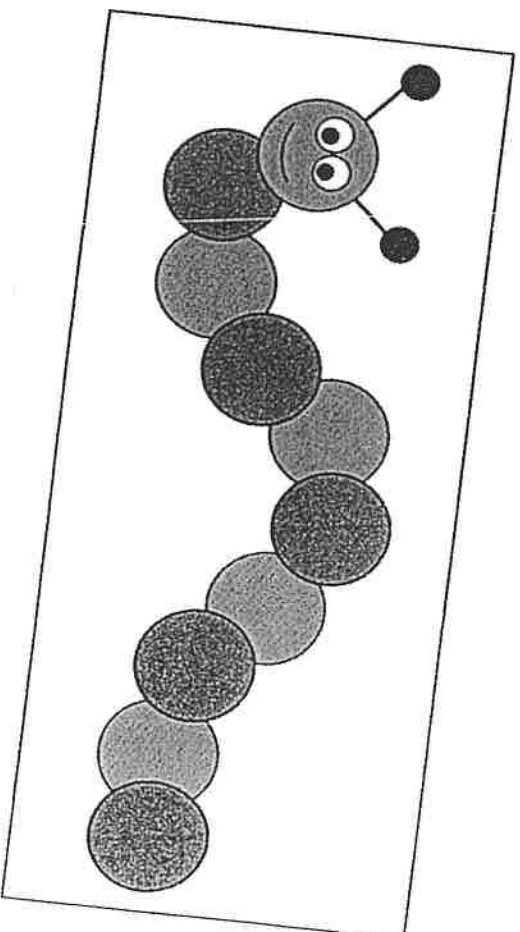
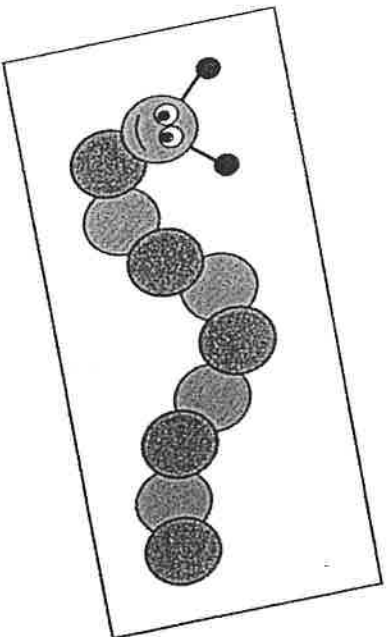
6 7 8 9 10

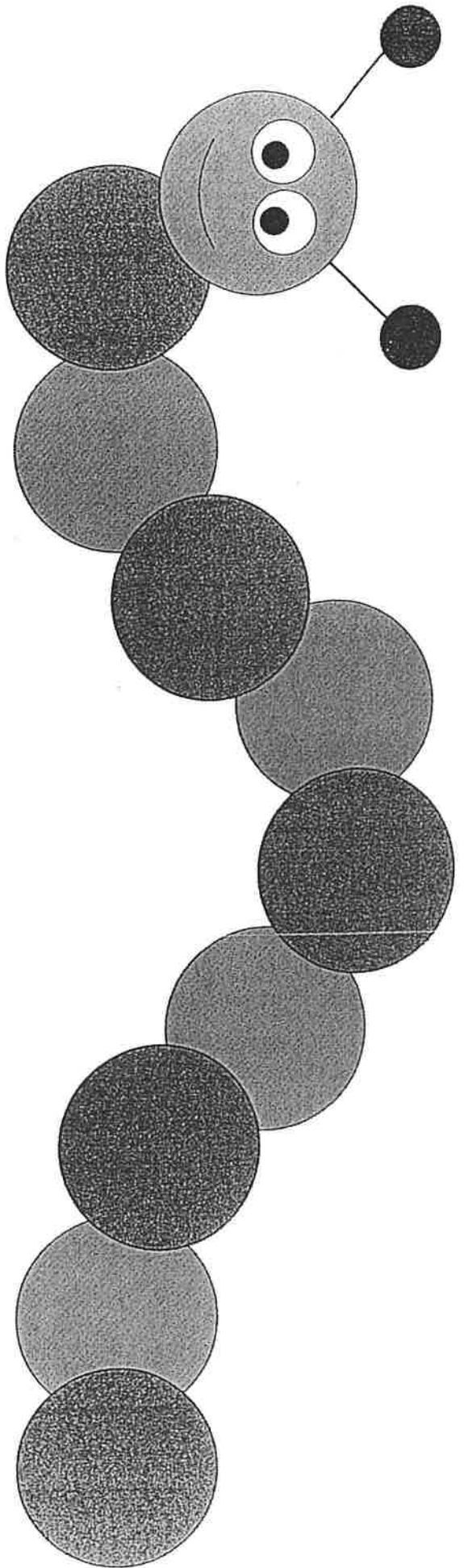
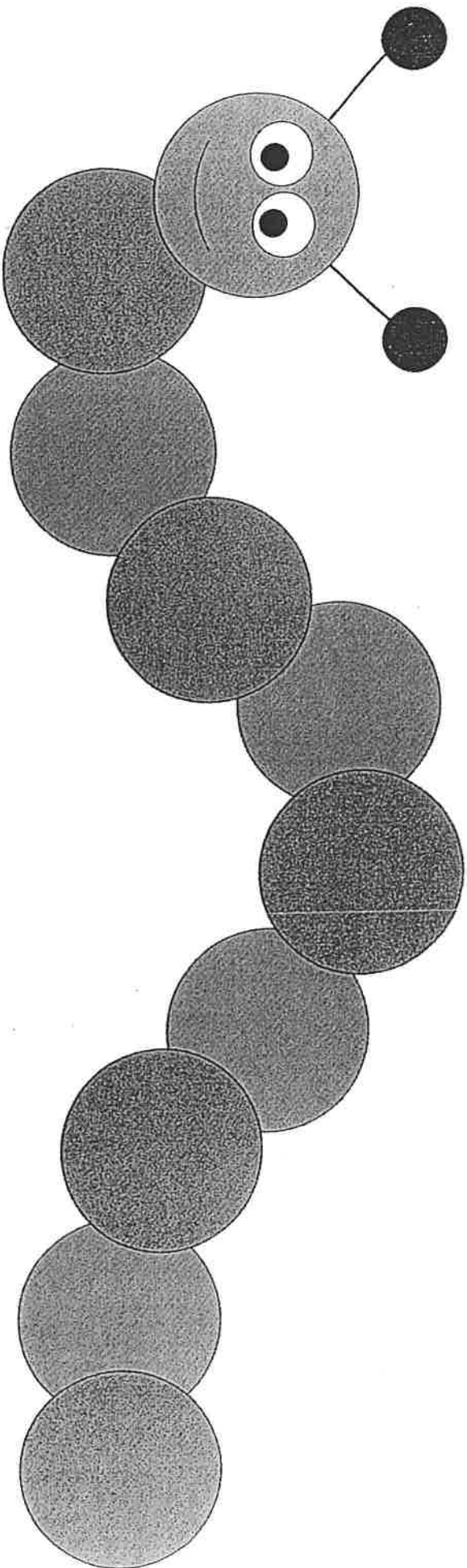
11 12 13 14 15

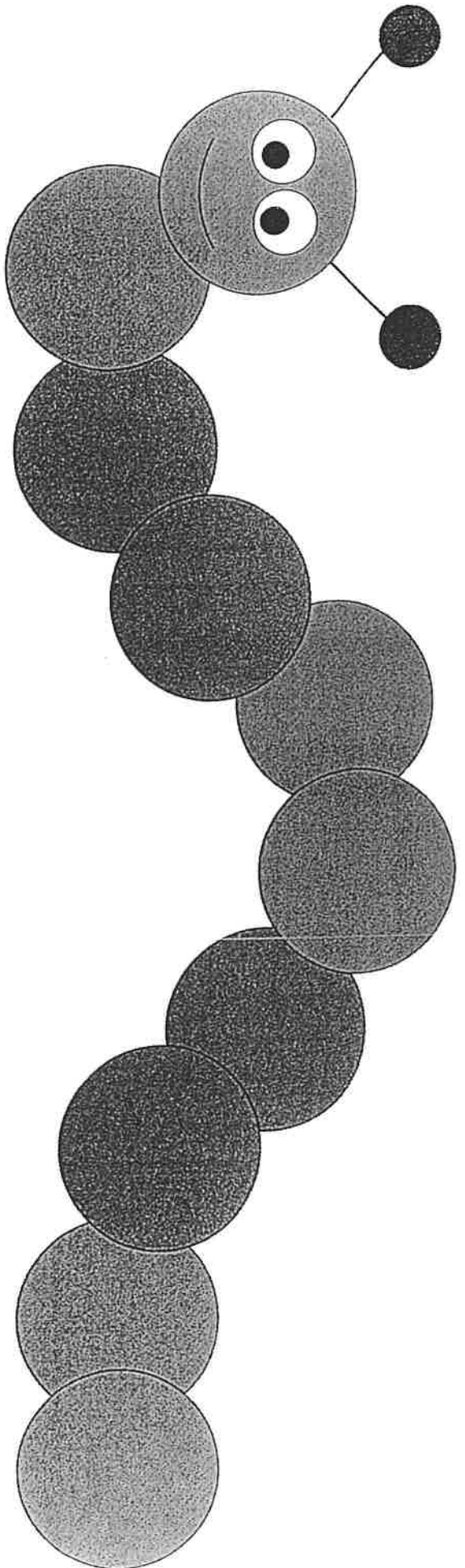
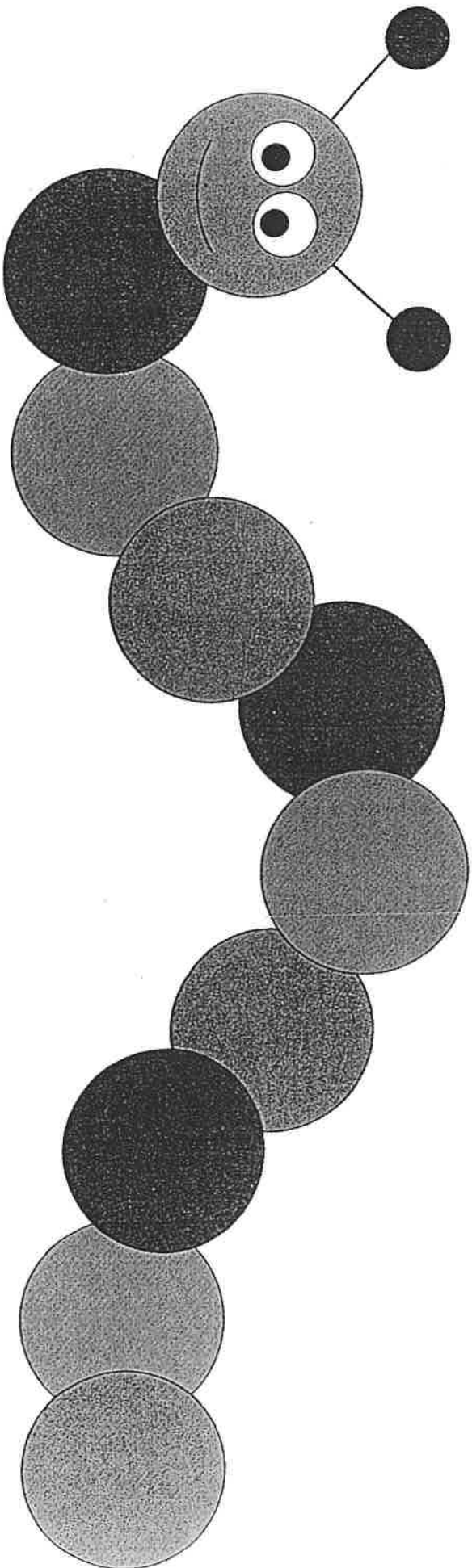
16 17 18 19 20

Caterpillar Patterning

Pictures of caterpillars with different types of patterns , for children to recreate. They could recreate the pattern with LEGO blocks, pompoms and sorters.

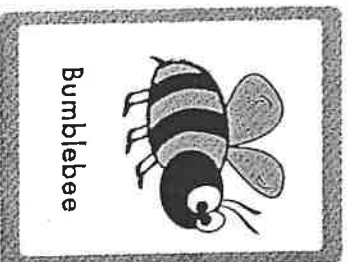




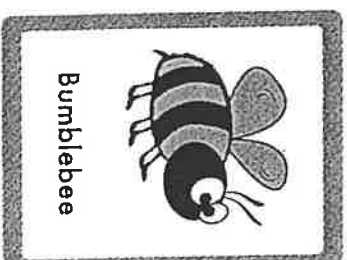
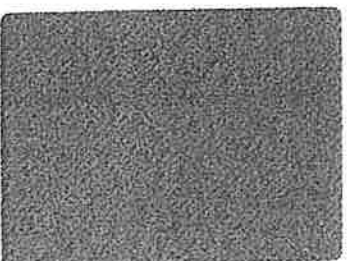
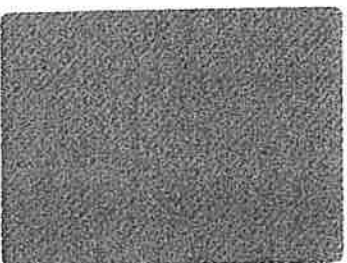


Memory Game – Insects & Crawlers

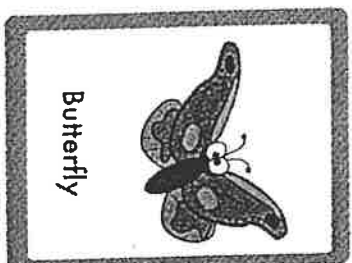
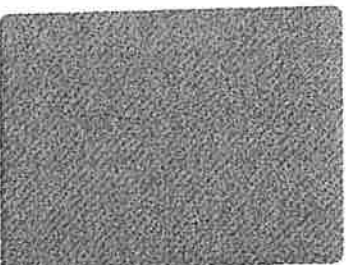
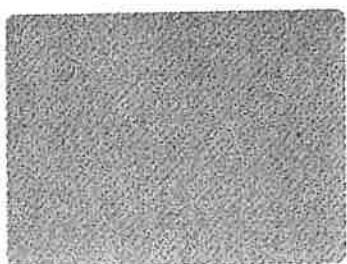
Insect memory game/matching game. This activity can be used as a memory game or as a matching activity, depending on the age group. Cut and laminate the pieces to make them last longer.



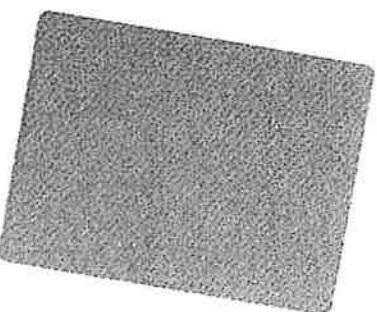
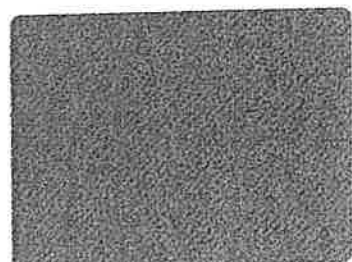
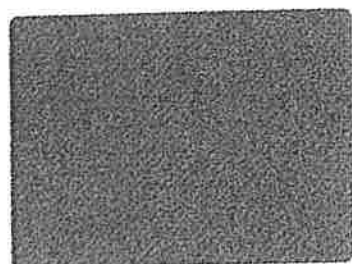
Bumblebee

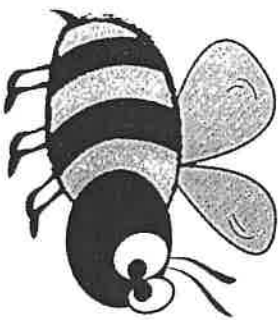


Bumblebee

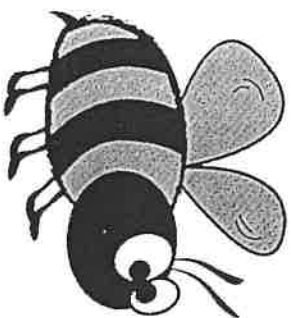


Butterfly

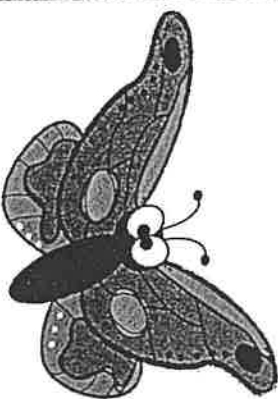




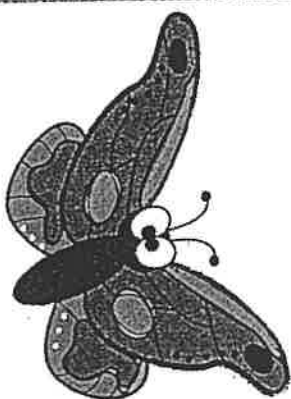
Bumblebee



Bumblebee



Butterfly



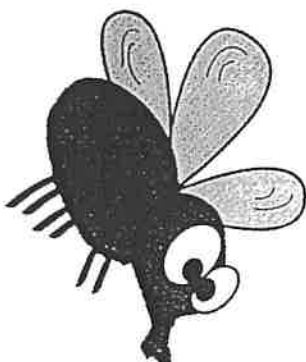
Butterfly



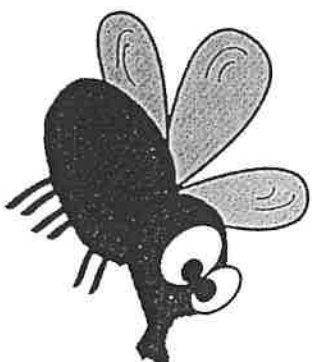
Dragonfly



Dragonfly



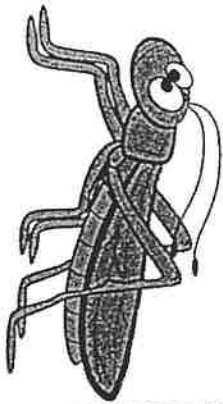
Fly



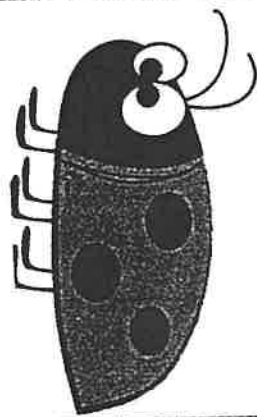
Fly



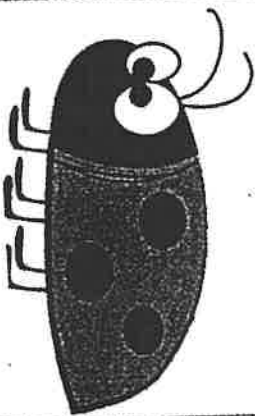
Grasshopper



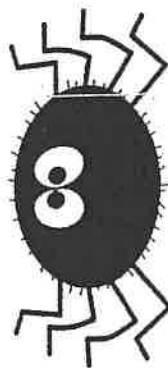
Grasshopper



Ladybug



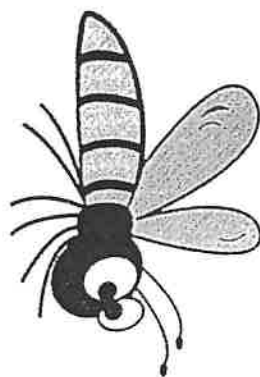
Ladybug



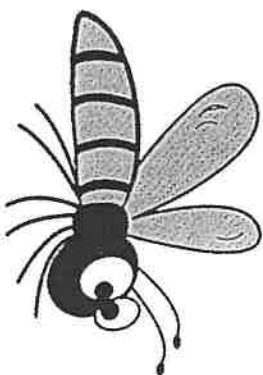
Spider



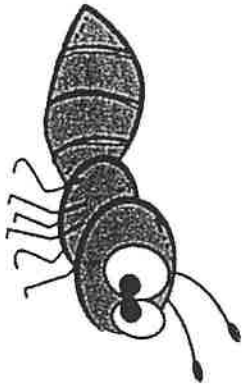
Spider



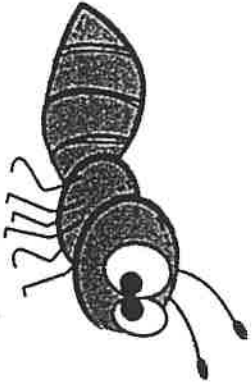
Wasp



Wasp



Ant



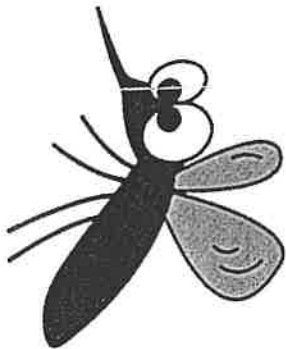
Ant



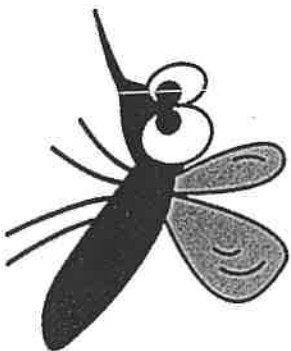
Caterpillar



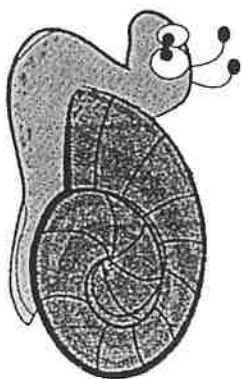
Caterpillar



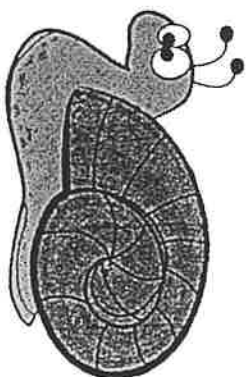
Mosquito



Mosquito

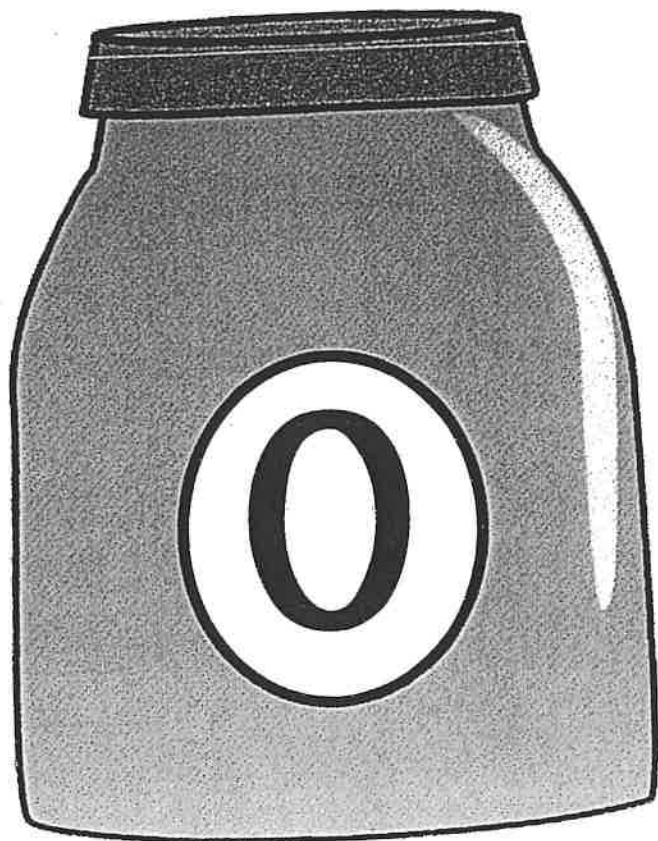


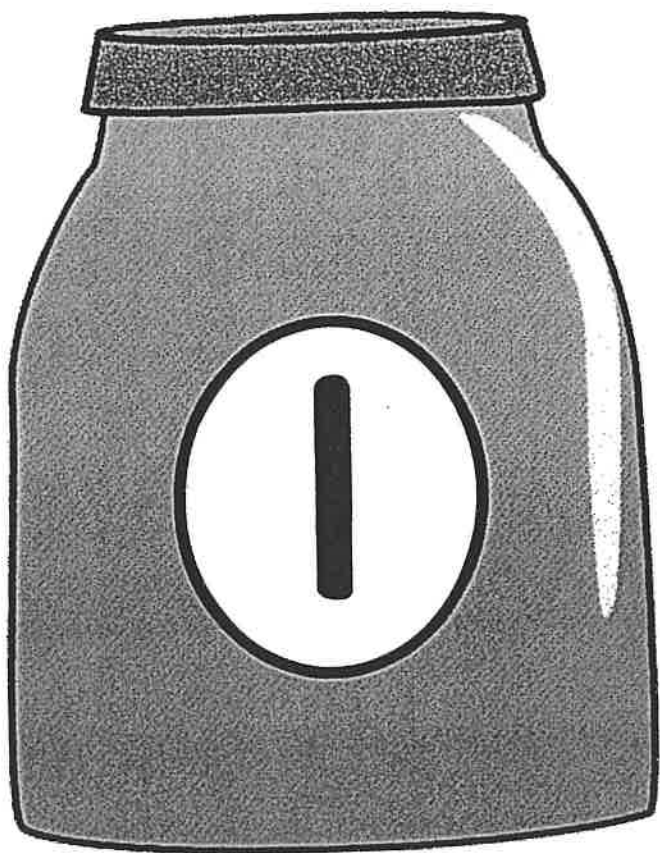
Snail

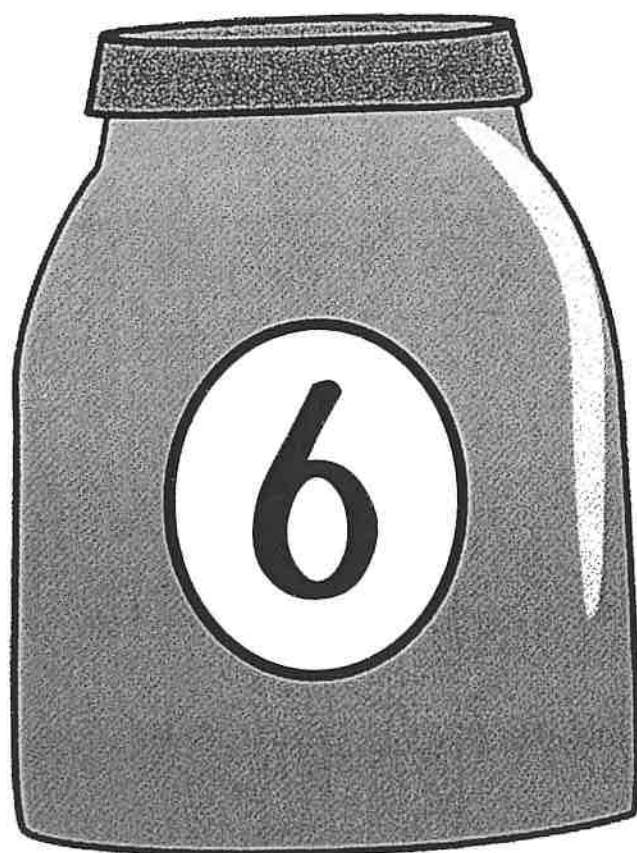


Snail

DRAW # OF BUGS THAT CORRESPOND WITH NUMBER

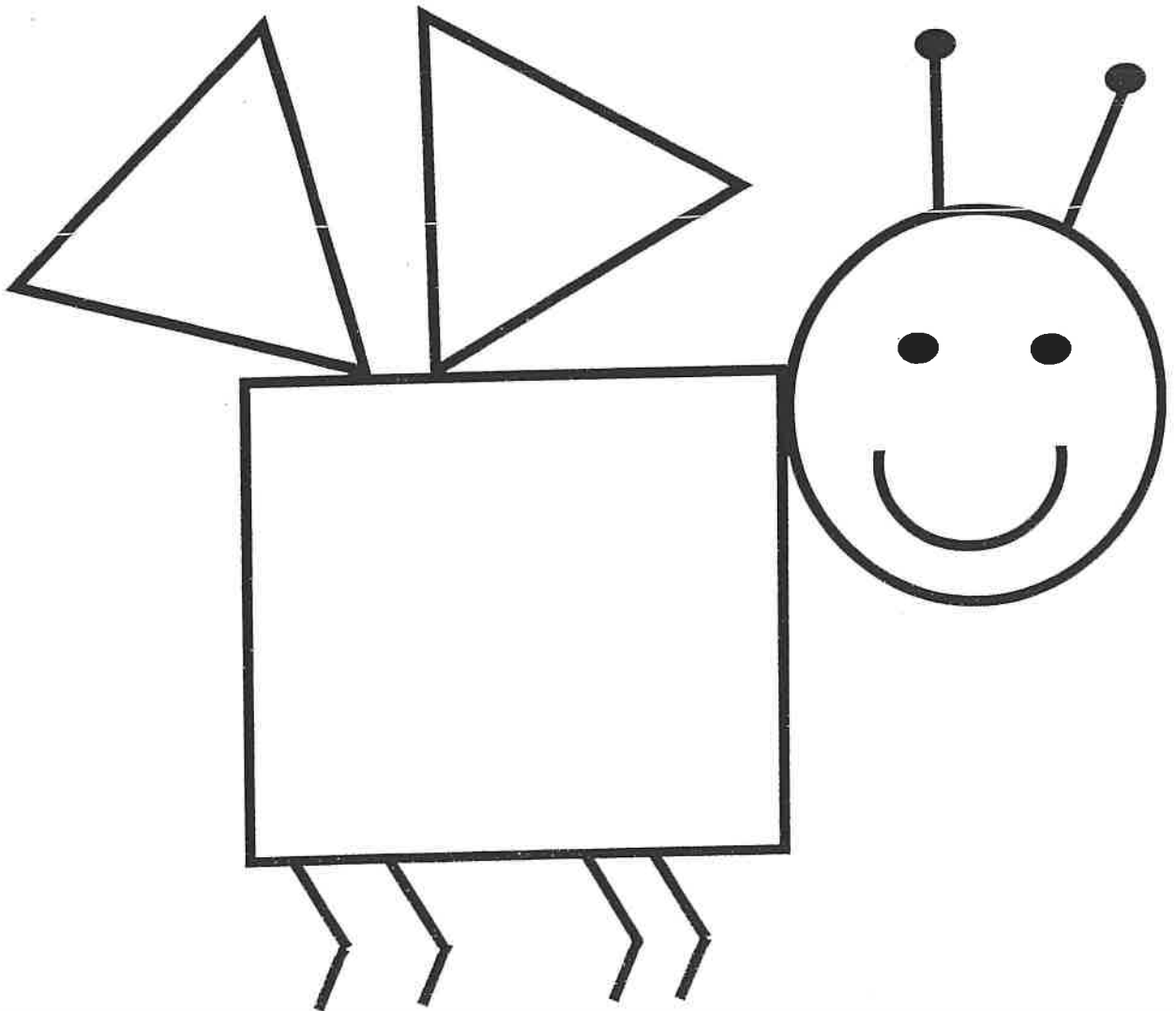
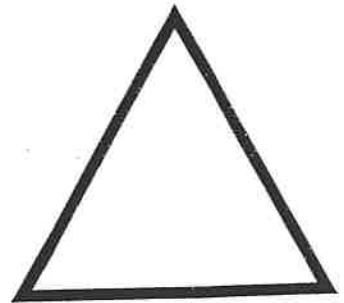
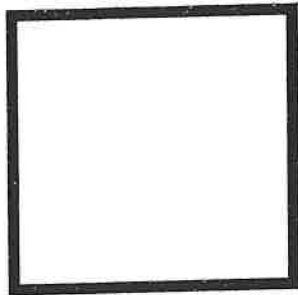






Name: _____

Following
Verbal Directions



Ladybug Snacks



Ingredients:

Round crackers
Red spread (strawberry cream
cheese or strawberry jam)
Raisins or chocolate chips

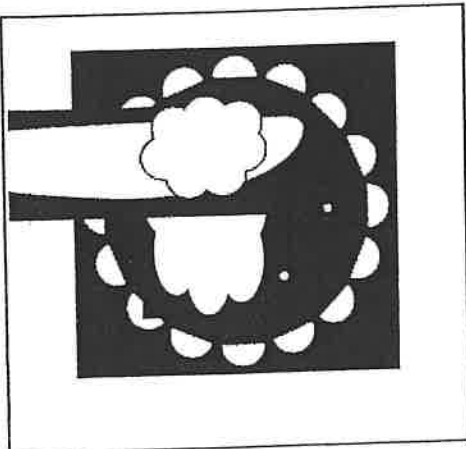
Teacher preparation:

Arrange the ingredients, plates
and spreading sticks need the
step-by- step recipe card.

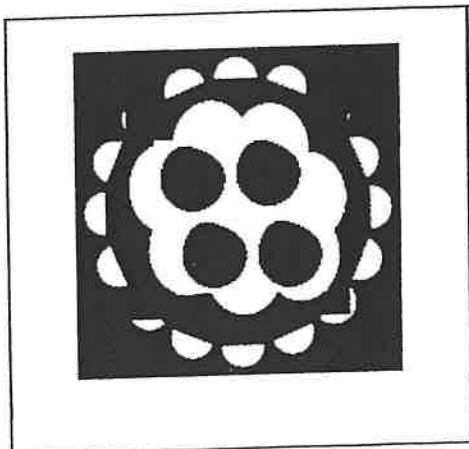
Supplies and utensils:

Paper plates and spreading sticks

Ladybug Snacks



1. Spread.

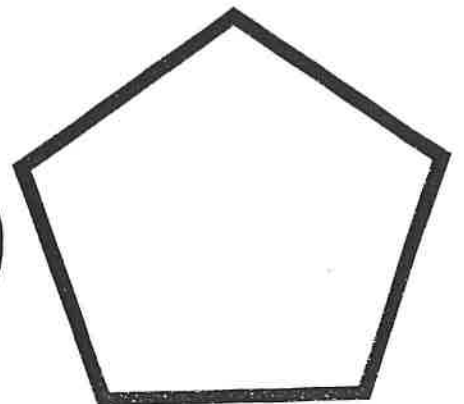
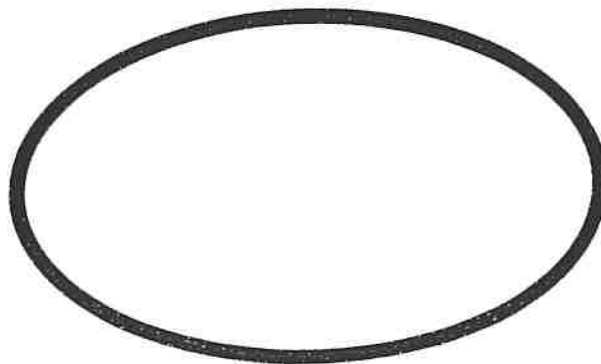
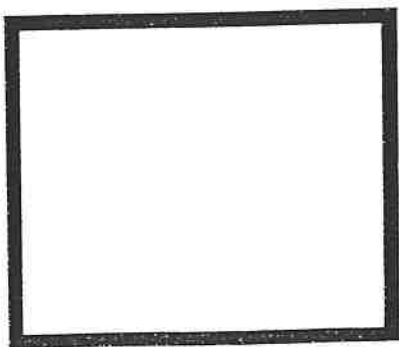
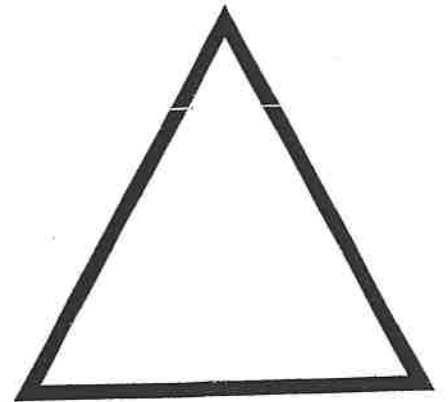
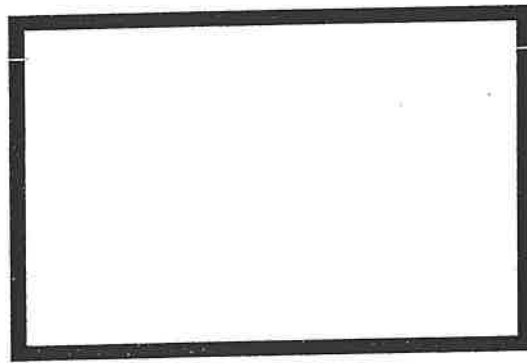
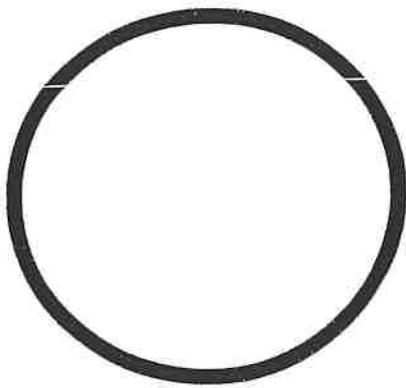
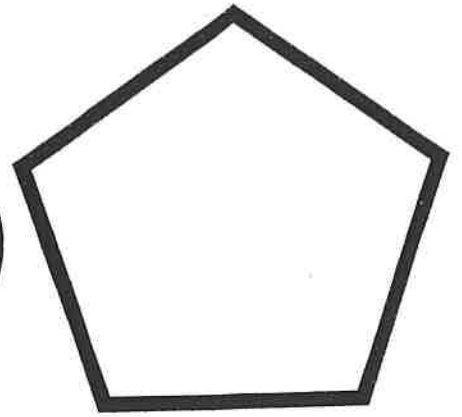
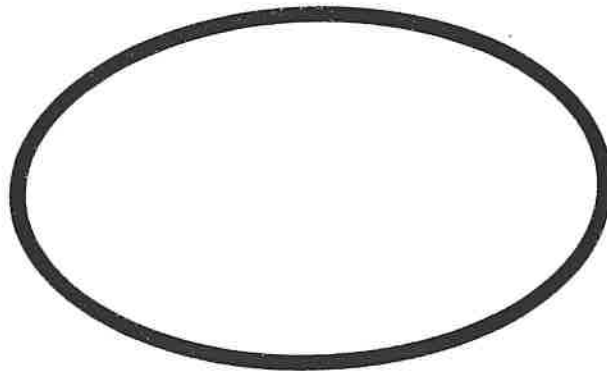
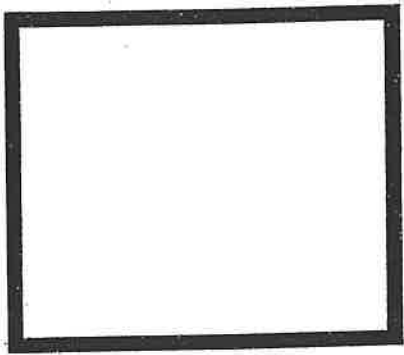
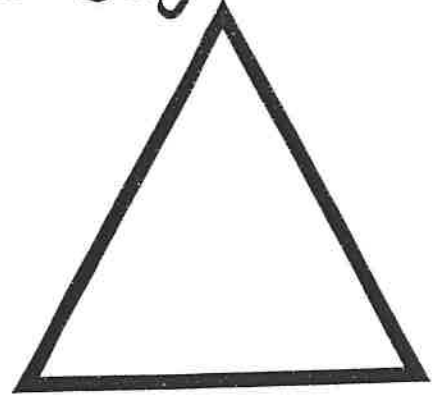
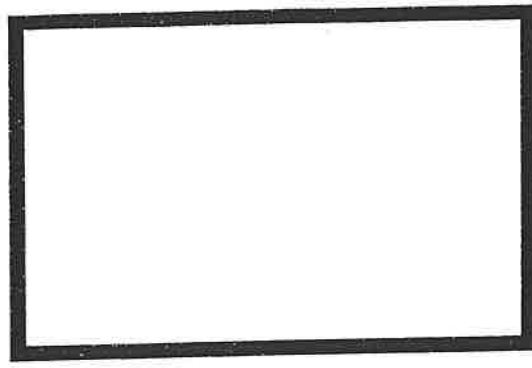


2. Add.

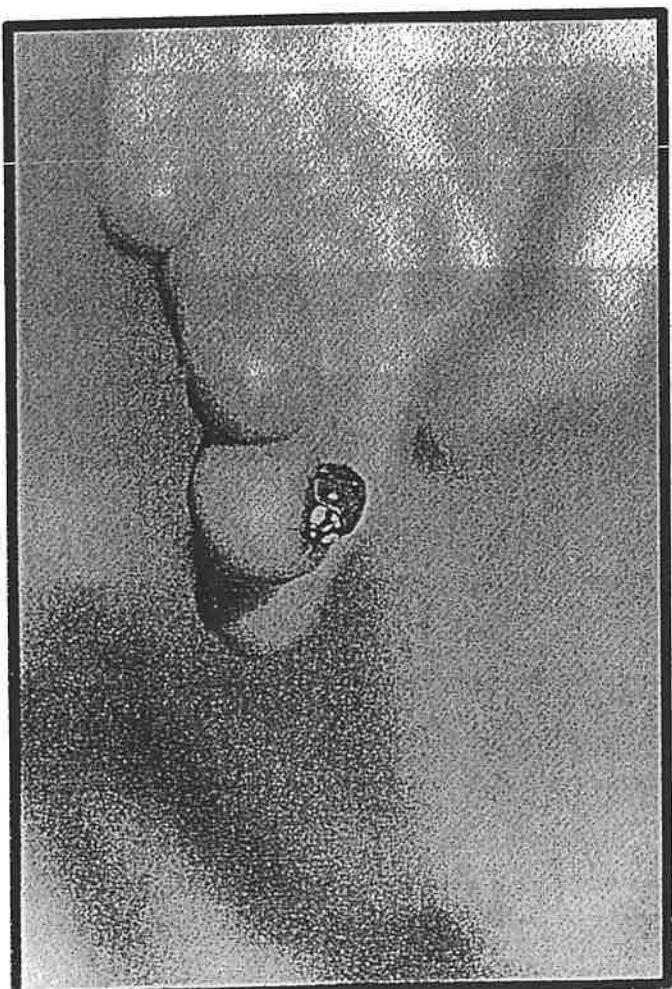
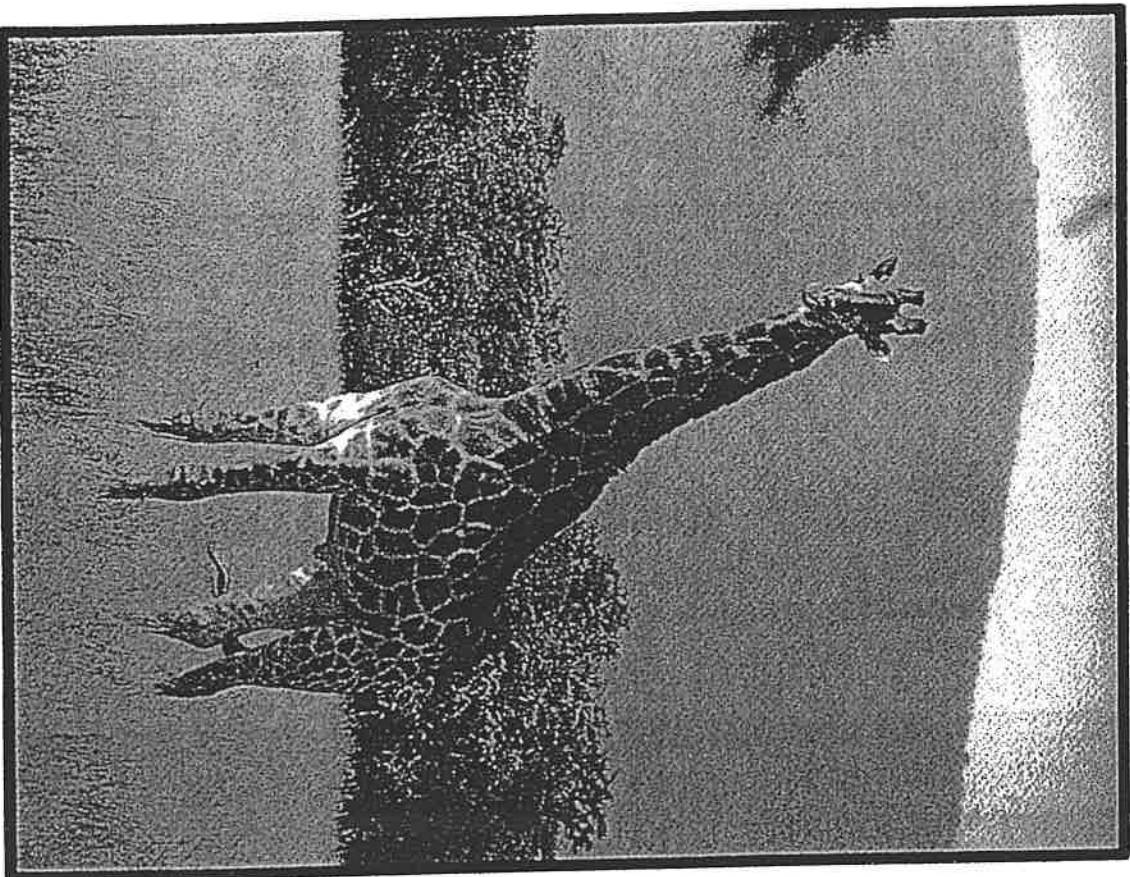


3. Eat.

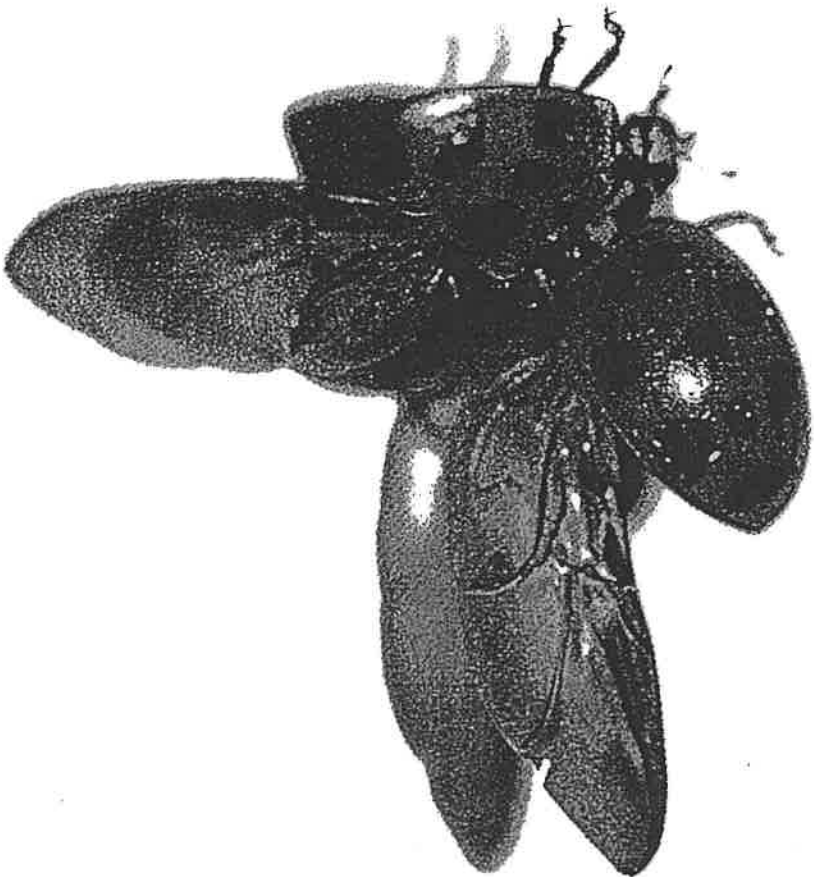
COLOR & CUT SHAPES TO CREATE BUGS



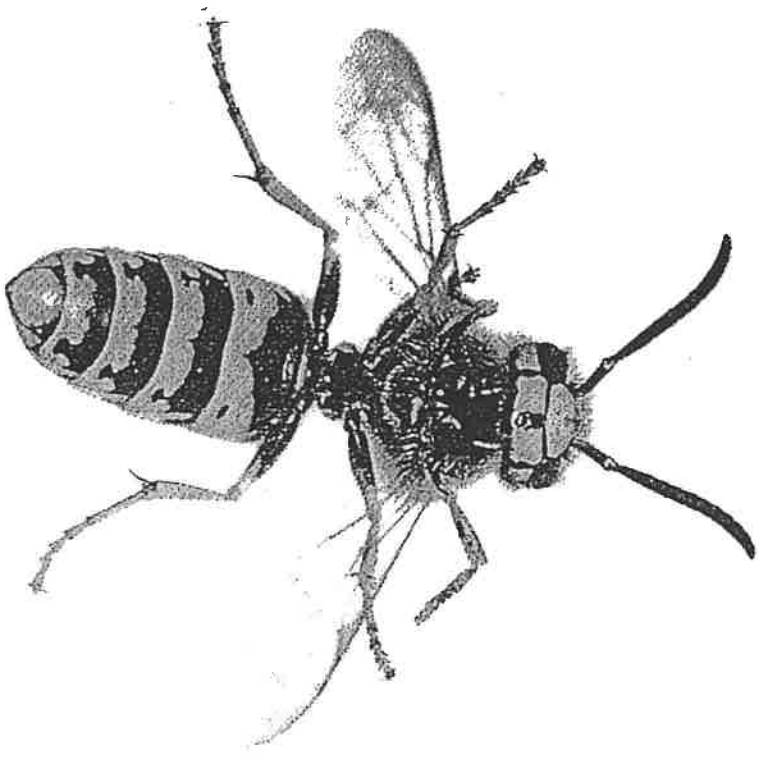
Which is bigger?



How are these insects alike?



ladybug

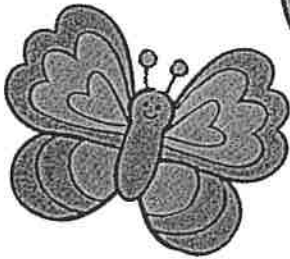


wasp

I SPY

butterfly in the fields

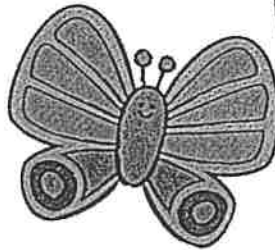
1



I SPY

butterflies in the
fields

2



I SPY

butterflies in the
fields

3



I SPY

butterflies in the
fields

4



I SPY

butterflies in the
fields

5



I SPY

butterflies in the
fields

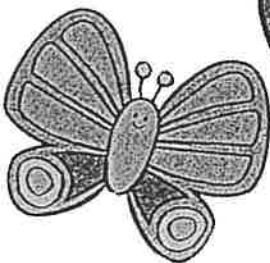
6



I SPY

butterflies in the
fields

7



I SPY

butterflies in the
fields

8



I SPY

butterflies in the
fields



I SPY

butterflies in the
fields

