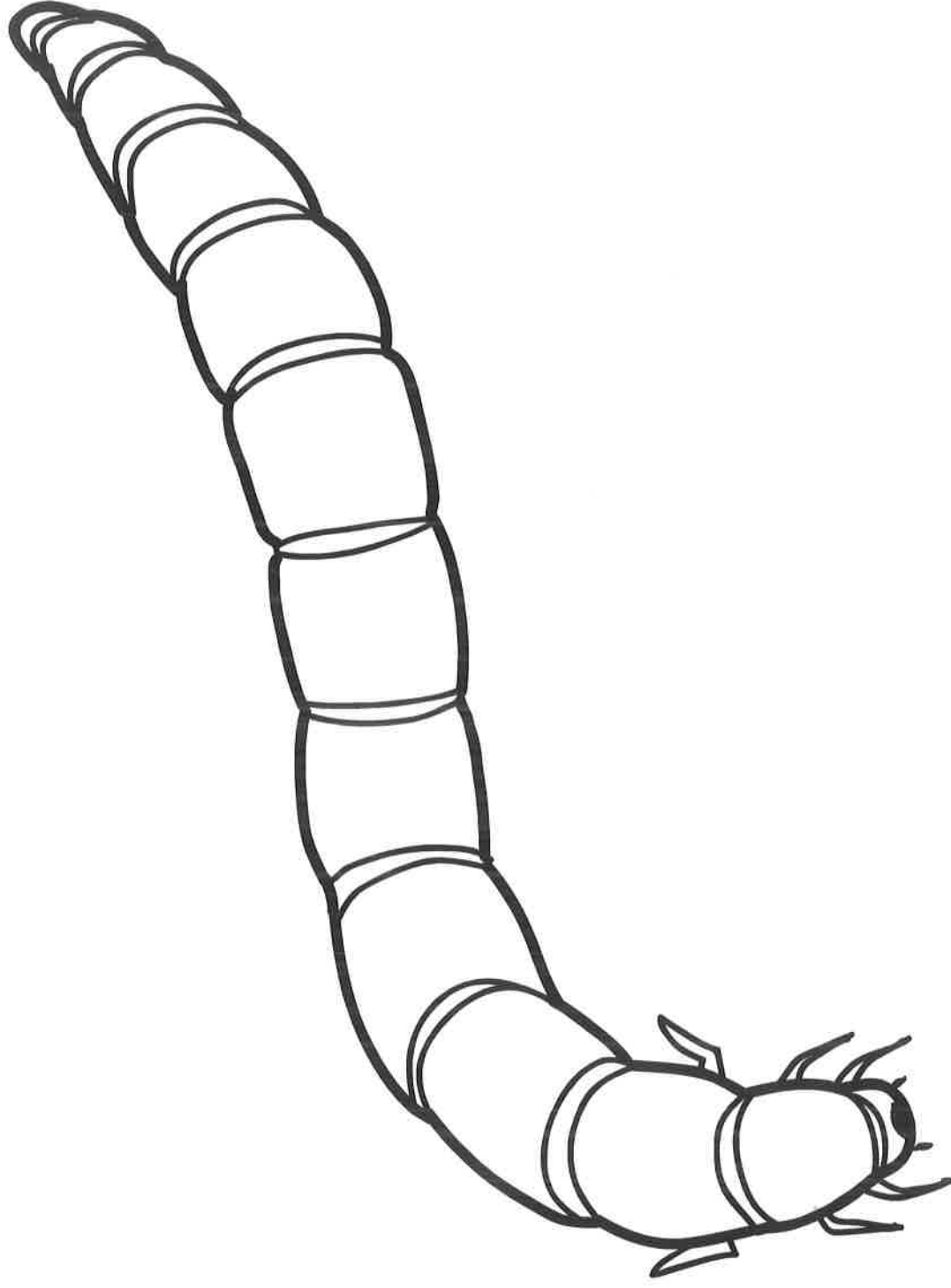


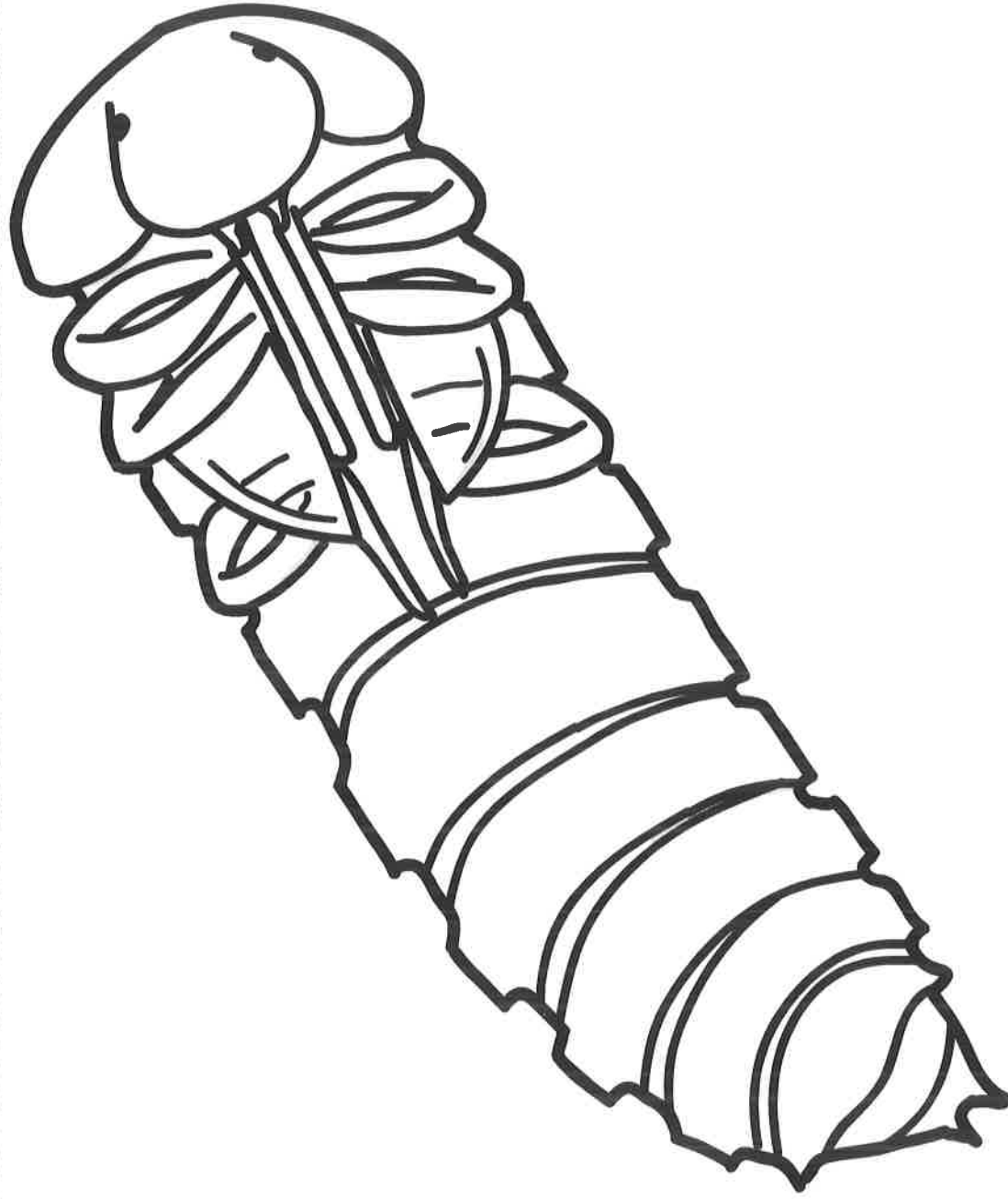
# MEALWORM LARVA



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Environments Module  
Investigation 1: Environmental Factors  
No. 2— Teacher Master

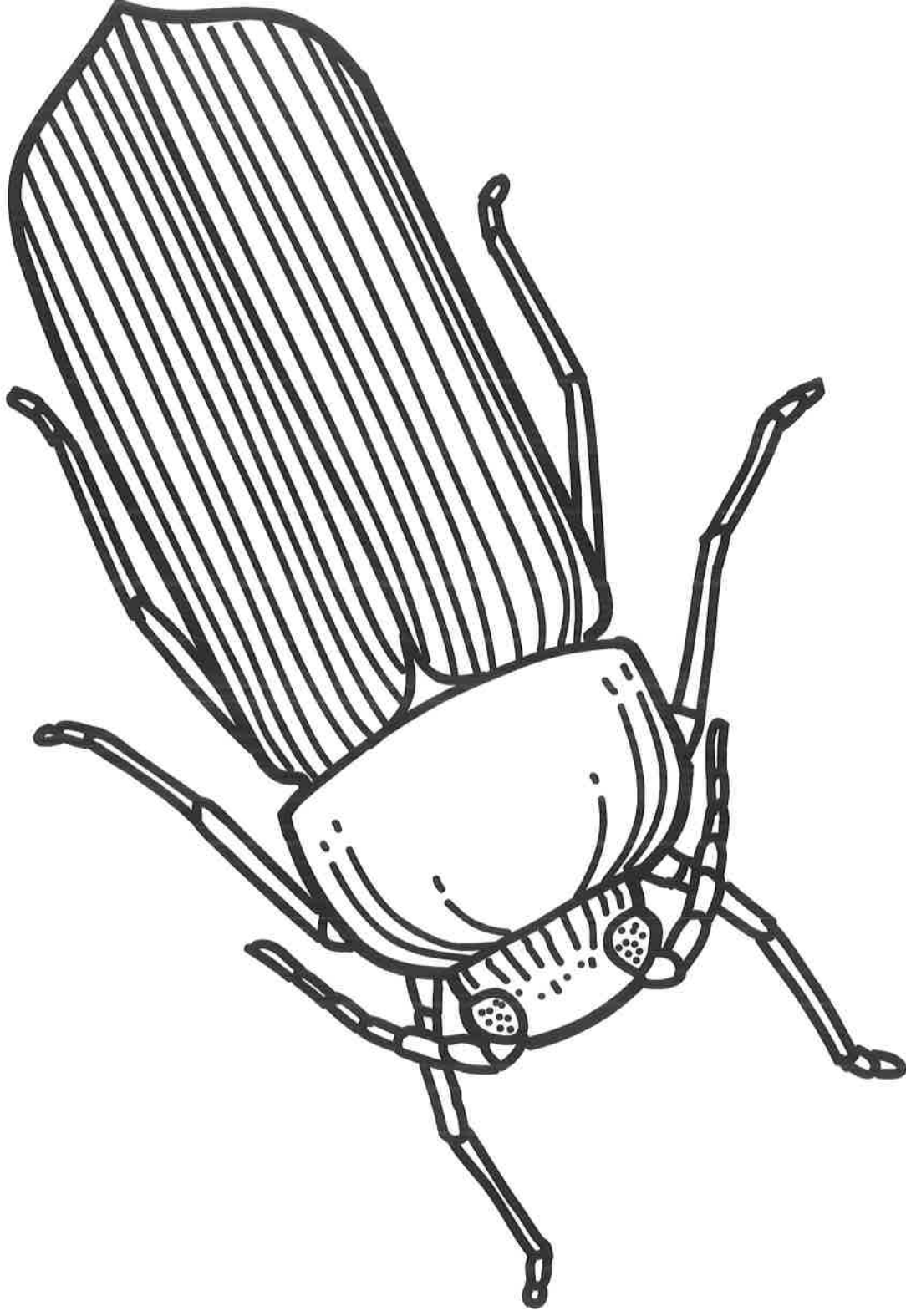
## MEALWORM PUPA



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Environments Module  
Investigation 1: Environmental Factors  
No. 3—Teacher Master

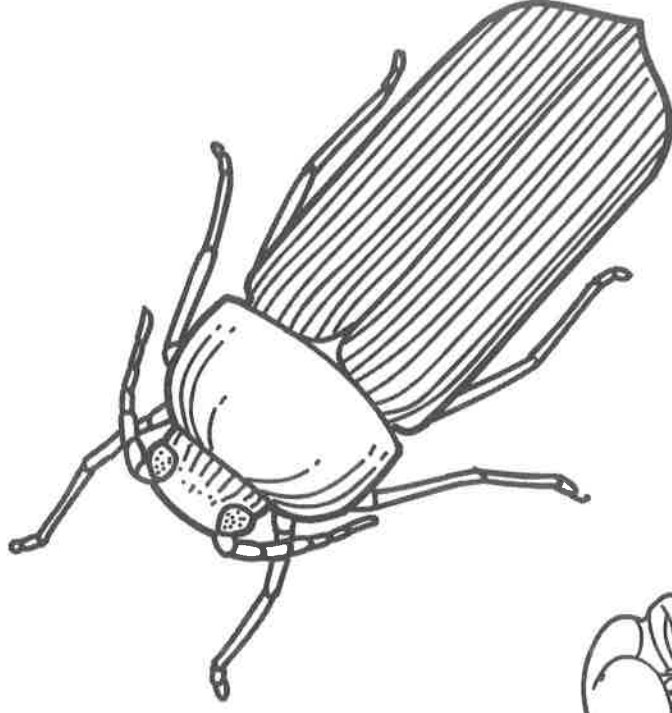
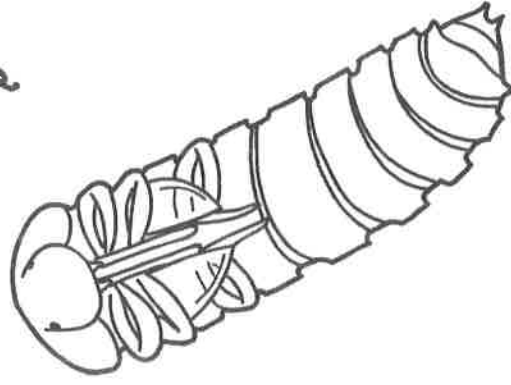
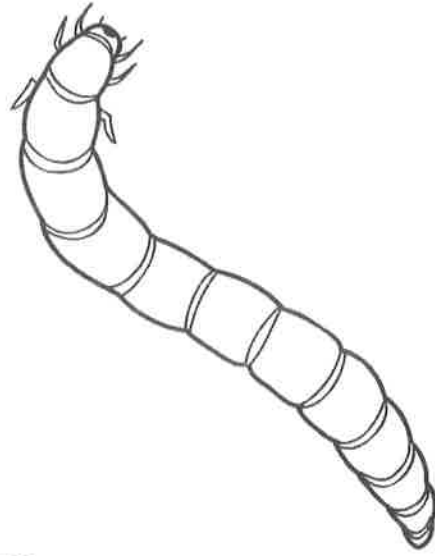
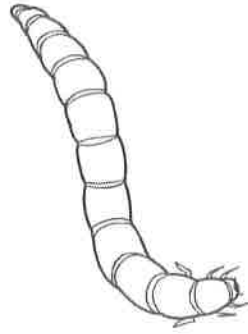
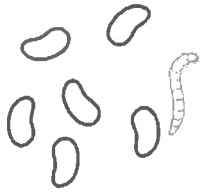
## MEALWORM ADULT (DARKLING BEETLE)



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Environments Module  
Investigation 1: Environmental Factors  
No. 4—Teacher Master

## MEALWORM STAGES (DARKLING BEETLE STAGES)



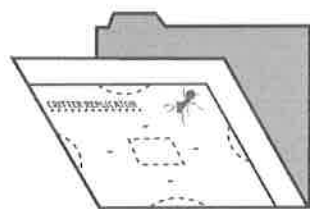
# CRITTER REPLICATOR INSTRUCTIONS.....

## Materials for one Replicator

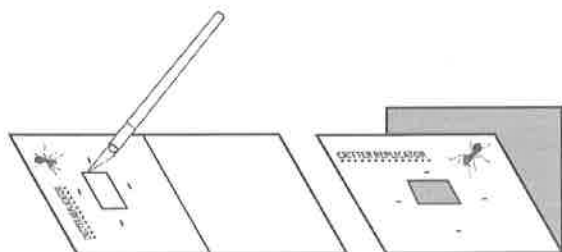
- 1 Manila file folder, 20 cm × 30 cm
- 1 *Critter Replicator Cover* sheet
- 1 Set of body-part-wheel transparencies (head, thorax, abdomen, wings)
- 4 Round-head paper fasteners, 1/2"

## Construction

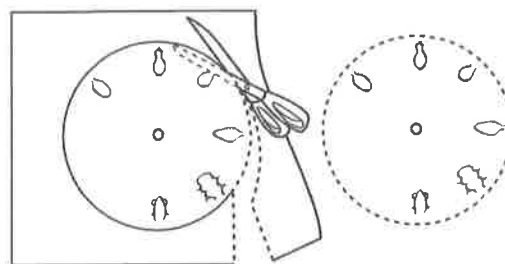
1. Glue the cover sheet to the file folder, lining up the bottom of the sheet with the file folder as shown. Cut the folder to the size of the title sheet.



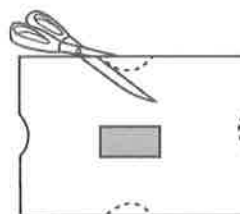
2. Open the folder, and lay it flat with the cover sheet facing up. Cut out the window in the cover sheet. Fold the folder in half, and make a tiny slit at each end of the four paper-fastener locations through all the layers of paper. The slit allows you to easily push the paper fastener through the sheet.



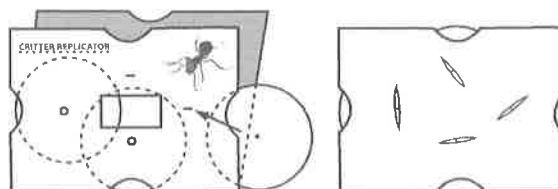
3. Cut out the transparent body-part wheels *inside* the black outline so that the edge of the wheel is clear. In the center of the wheel, cut a hole the width of the paper fastener (not too big!), so that the wheel will turn freely on the fasteners.



4. Cut out the crescent-shaped pieces at the top, bottom, and two sides of the cover sheet and file folder.



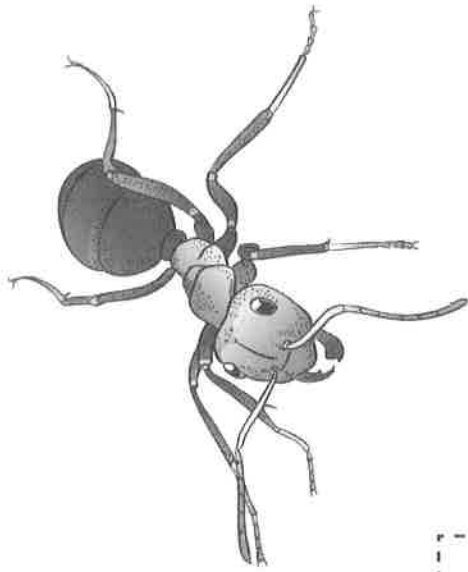
5. Use the cover sheet to guide you in positioning each wheel; put the thorax wheel in first and the wing wheel in last. Place each wheel in the folder and lock it in place with a paper fastener through the center. The paper fasteners should go through both sides of the folder.



6. Each body-part wheel should turn freely on its fastener. If a wheel binds, loosen the paper fastener a bit.

# CRITTER REPLICATOR.

Wings



Abdomen

## How to use the replicator:

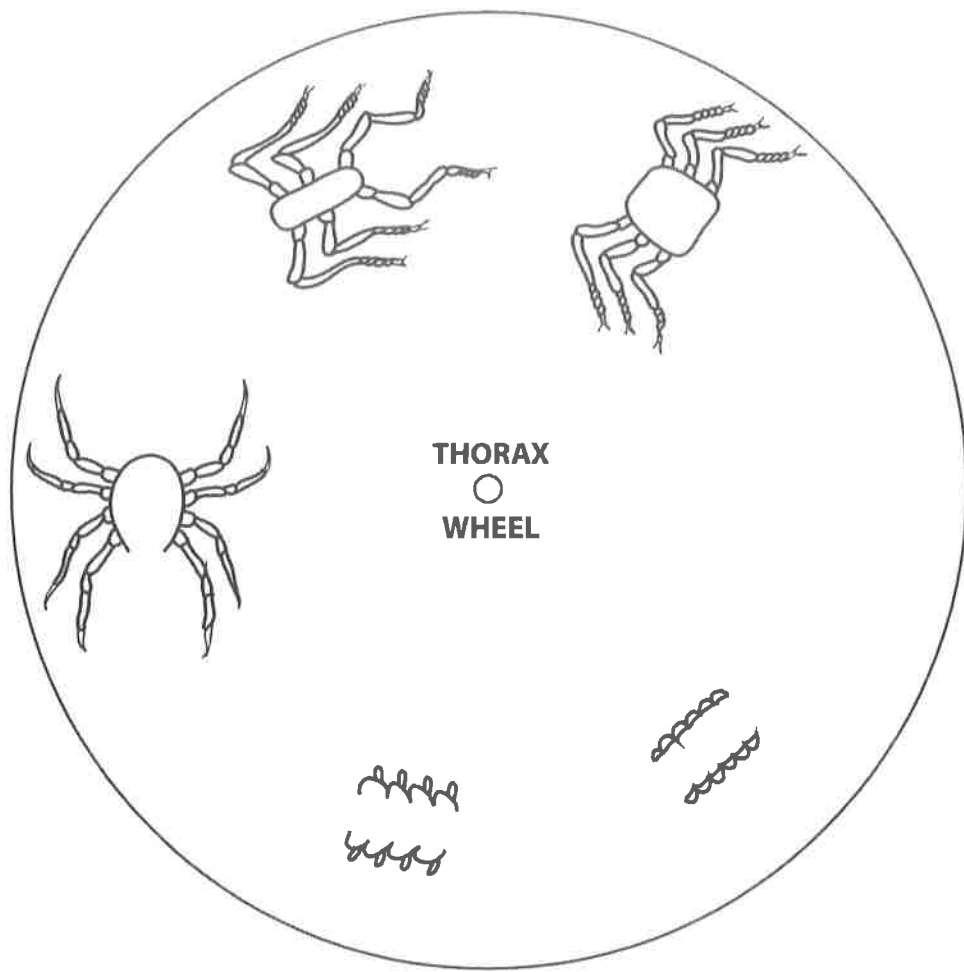
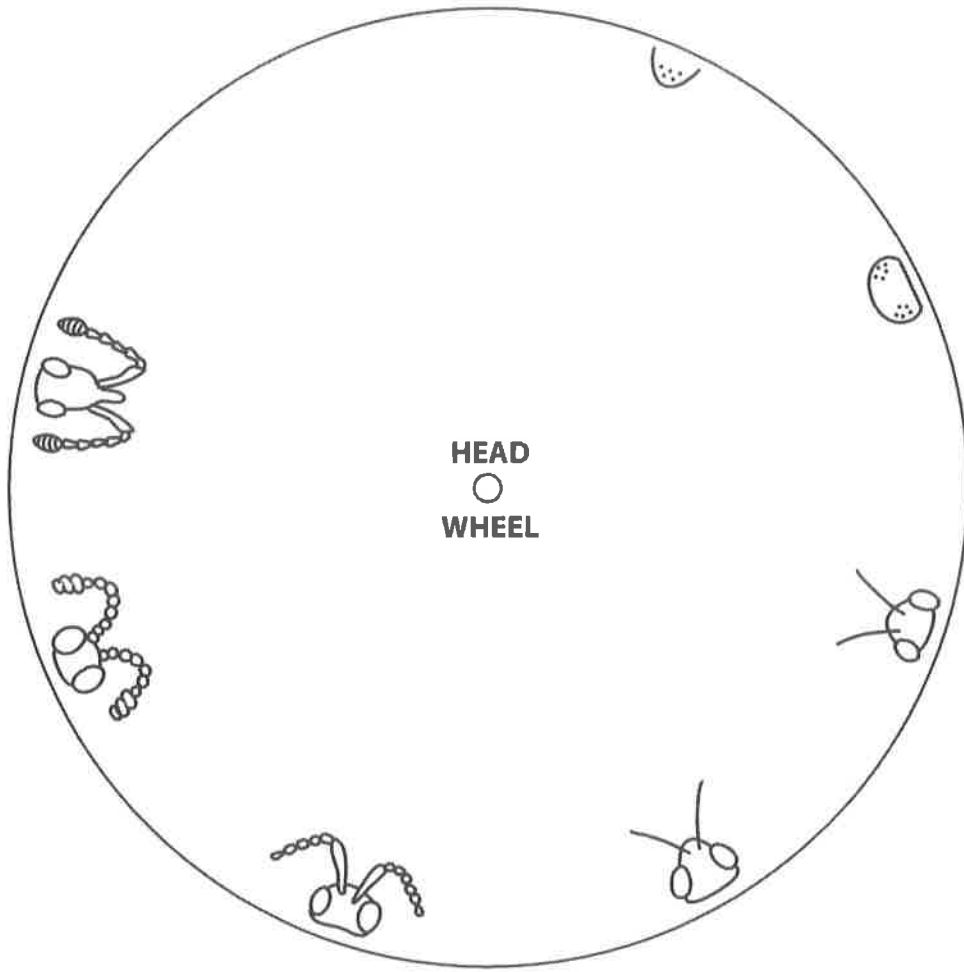
1. Turn all four wheels so the window shows no body parts.
2. Locate an animal from the leaf litter.
3. Observe the animal closely.
4. On your wheel dial the head that most closely resembles the head of the animal.
5. Next select a thorax, the middle part of the animal. How many legs does the animal have?
6. Then choose an abdomen, the last part of the animal.
7. Does the animal have wings?

## How to make a record of your critter:

1. Draw your critter on a record sheet.
2. Color your picture to make it more closely resemble the animal you caught.

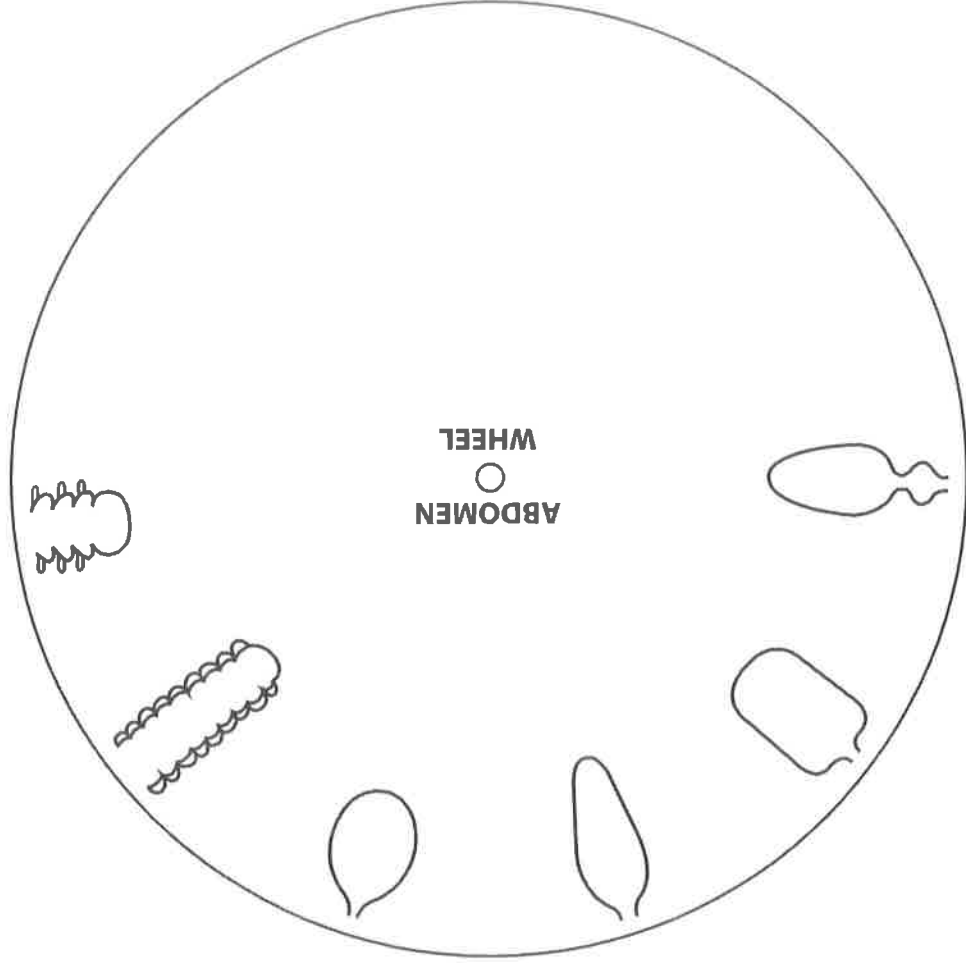
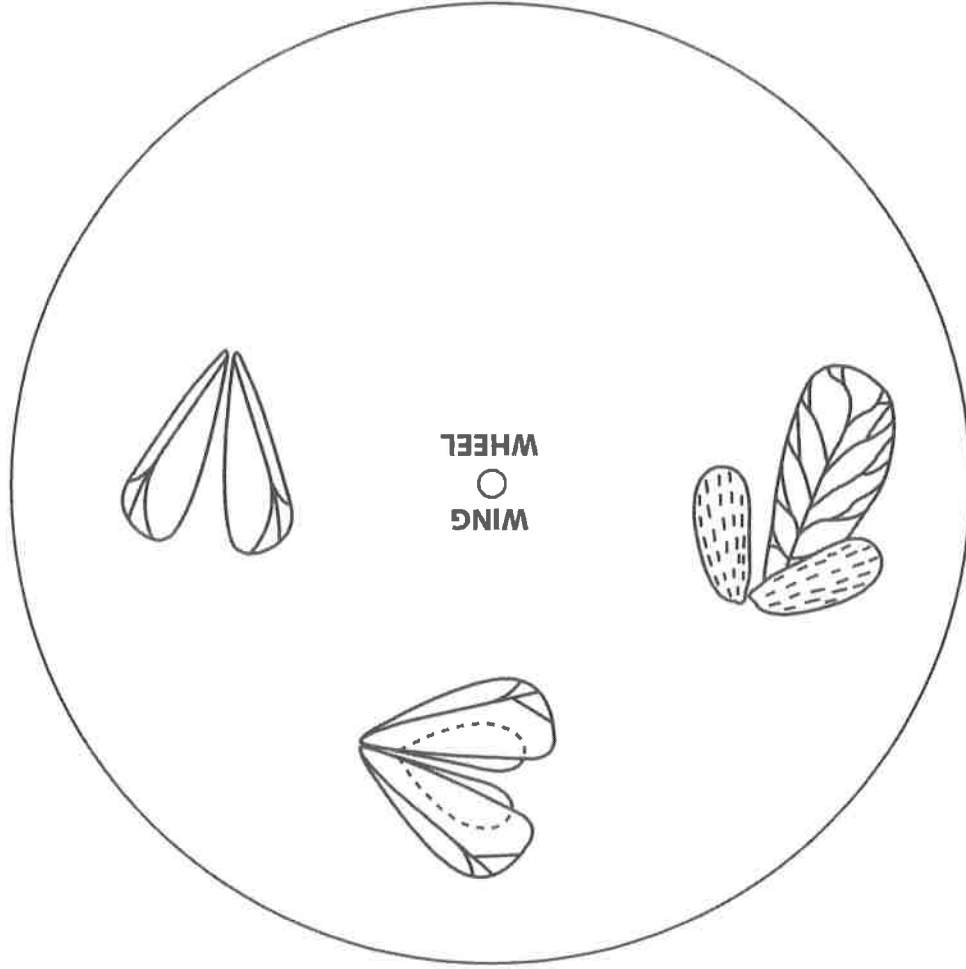
Thorax

# CRITTER REPLICATOR TRANSPARENCY — HEAD AND THORAX .....



To make additional Critter Replicators, duplicate these wheels on an overhead transparency.

# CRITTER REPLICATOR TRANSPARENCY—ABDOMEN AND WING.....



To make additional Critter Replicators, duplicate these wheels on an overhead transparency.



# CLASS AQUARIUM LOG

Start Date \_\_\_\_\_

Date	Group responsible	Water temp.	Water level	Were the fish fed?	Observations

**WARNING** — This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

## CONTAINER LABELS

Labels for  
Investigation 3:  
Brine Shrimp  
Hatching

**0 spoons  
of salt**

**2 spoons  
of salt**

**4 spoons  
of salt**

**6 spoons  
of salt**

Labels for  
Investigation 4:  
Range of Tolerance

**MOIST**  
**0 mL of water**

**WET**  
**40 mL of water**

**DRY**  
**0 mL of water**

**SWAMP**  
**120 mL of water**

**VERY WET**  
**80 mL of water**

Labels for  
Investigation 4:  
Range of Tolerance

**0 spoons of salt**

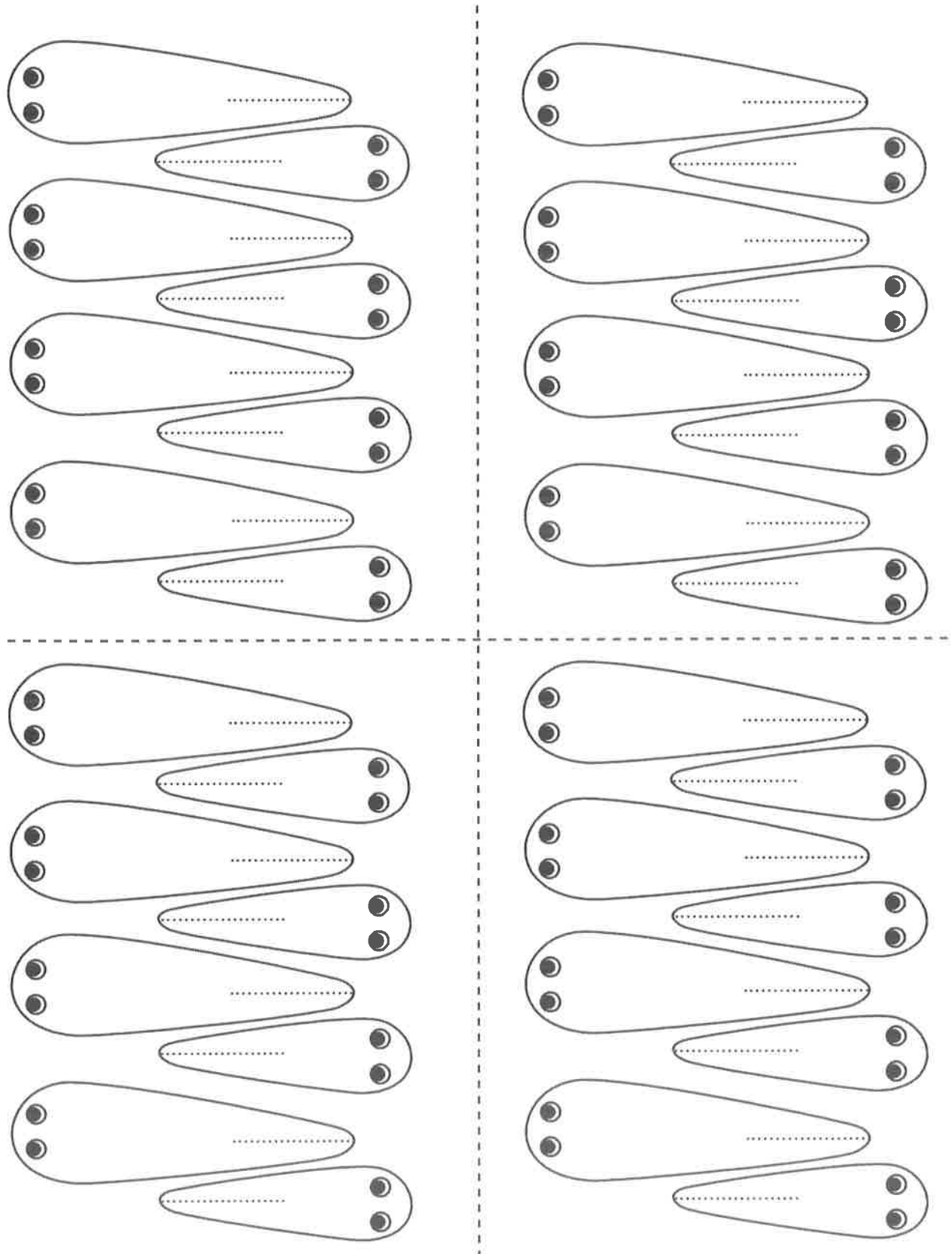
**1 spoon of salt**

**2 spoons of salt**

**4 spoons of salt**

# ANIMAL SHAPES FOR GROUPS 1-4.....

## Investigation 3: Brine Shrimp Hatching



## PLANT PROFILE

## Investigation 4: Range of Tolerance

Plant type \_\_\_\_\_ Environmental factor \_\_\_\_\_ Days of growth \_\_\_\_\_

Label the columns with the environments being studied. Tape the plants in place.

[illegible]