



What

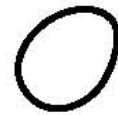


is

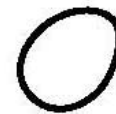


in

an



egg?



Mealworms

hatch

from

an

egg.

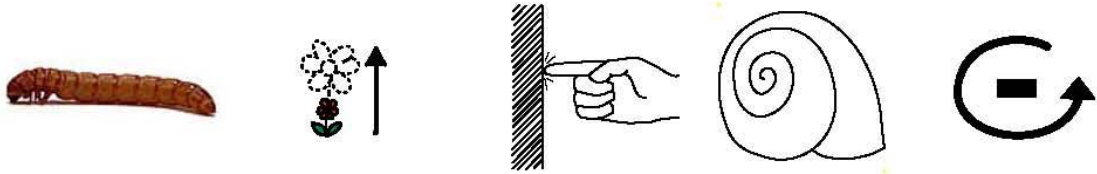


Mealworms

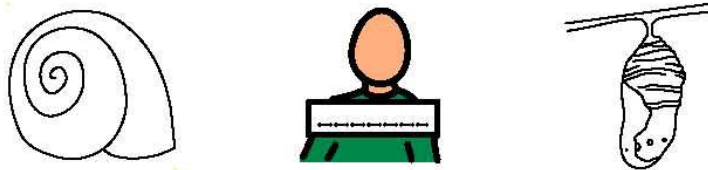
are

called

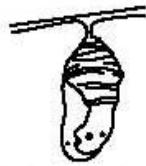
**LARVAE.**



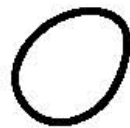
A mealworm grows a hard shell around it.



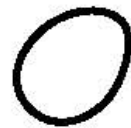
The shell is called a PUPA.



**The PUPA turns into a beetle.**



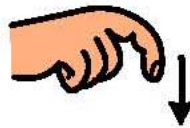
**The beetle lays eggs.**



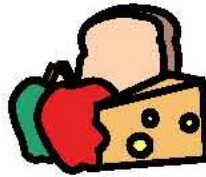
**Mealworms hatch from an egg.**



Mealworms



need



food

to



live



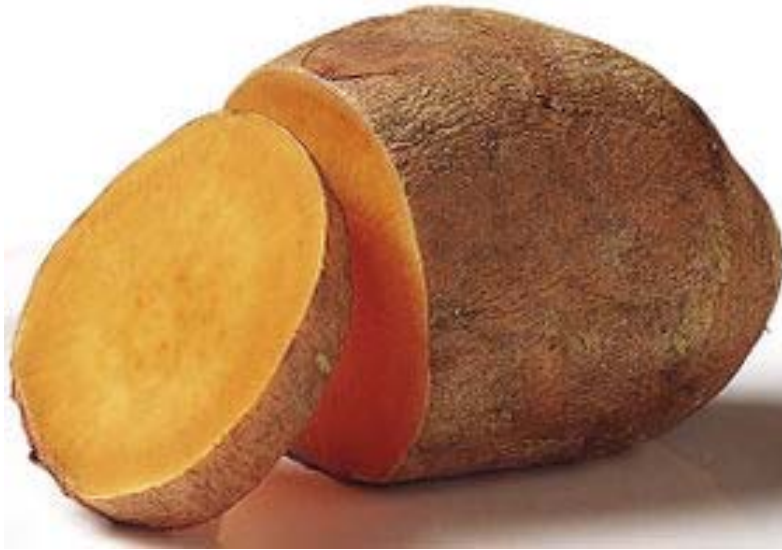
Mealworms


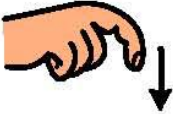





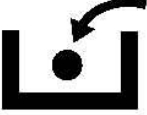

eat



cereal.



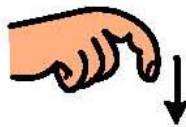
     
Mealworms need water to live.

    
Water is in sweet potatoes





Mealworms



need



space.



Mealworms



live

in a



bowl.



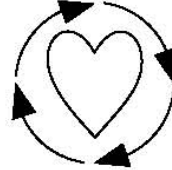
Name \_\_\_\_\_



Date \_\_\_\_\_



Mealworm



Life cycle



How many



days

was



mealworm?

\_\_\_\_\_



How many



days

was



beetle?

\_\_\_\_\_

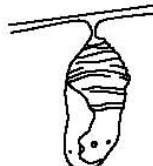


How many



days

was

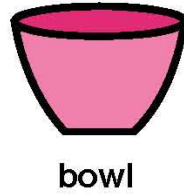
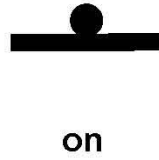
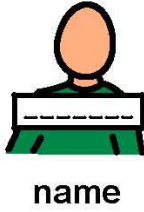


pupa?

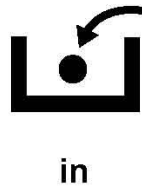
\_\_\_\_\_

# Directions

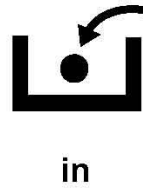
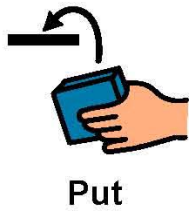
1



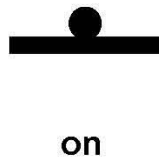
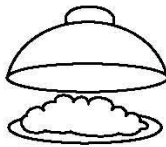
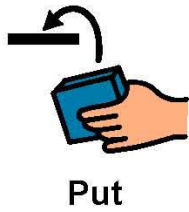
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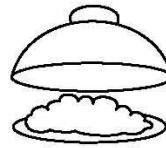
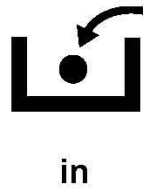
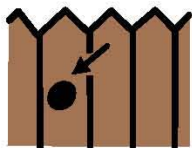
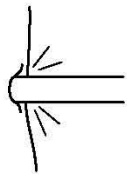
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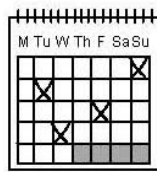
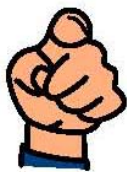
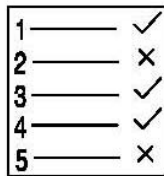
4

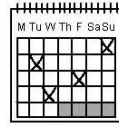


5



6





Mark

your

calendar .

Monday	Tuesday	Wednesday	Thursday	Friday



mealworm mealworm mealworm mealworm mealworm mealworm



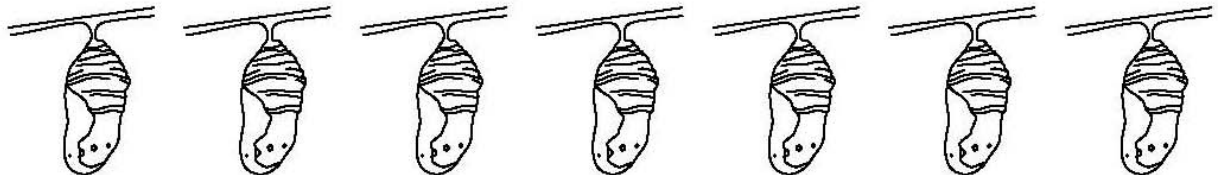
mealworm mealworm mealworm mealworm mealworm mealworm



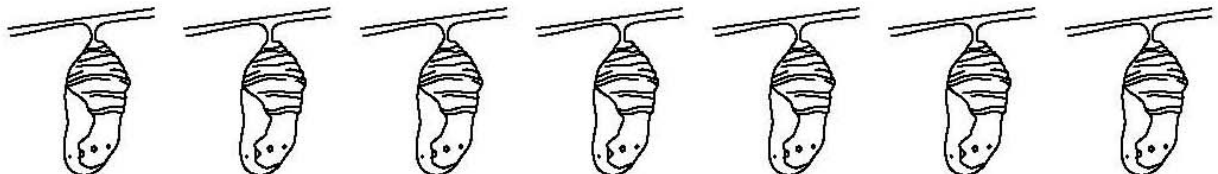
beetle beetle beetle beetle beetle beetle beetle beetle beetle



beetle beetle beetle beetle beetle beetle beetle beetle beetle



pupa pupa pupa pupa pupa pupa pupa



pupa pupa pupa pupa pupa pupa pupa



Name \_\_\_\_\_

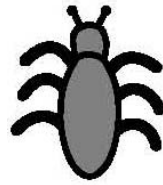


Date \_\_\_\_\_

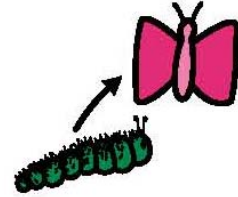


How

do



bugs



change?



Name \_\_\_\_\_

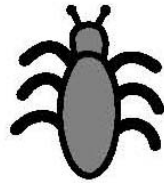


Date \_\_\_\_\_

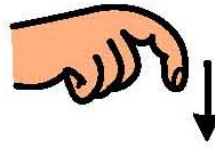


What

do



bugs



need

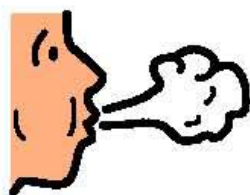
to



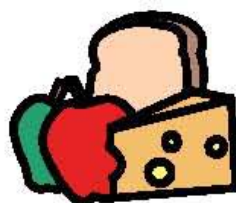
live?



water



air



food



space



**Life Science**  
Mealworm Investigation

**LS 1.3.1 Recognize the life stages of common organisms**

**A Science Investigation includes 4 components:**

- Observing/questioning
- Planning
- Conducting
- Analyzing

**OBSERVING/QUESTIONING**

Ideas on how students may be involved in the observing/questioning component of the science investigation:

- Read a book about mealworms and have a discussion on living insects. Students will be told about the insects that will be coming in the classroom. The discussion can include suggestions for handling live insects with respect. Students may be given two mealworms in a cup to observe. If students want to hold the worms, they should be able to. Students may also observe the worms on a plate with a hand lens. Worms may be gently shaken and observed.
- Students who benefit from picture cards can be cued to the concepts:  
Observe, mealworm, plate, hand lens/magnifying glass, move
- Make a prediction about what mealworms need to stay alive.  
(water, air, water, space)
- Make predictions about how long it will take the mealworm to change into a beetle.
- Make predictions about what the mealworm will change into.

**PLANNING**

Ideas on how students may be involved in planning the science investigation:

- Collect and put on the LAB coats.
- Based on predictions, identify the things needed for the experiment (food, space, etc.).
- Identify the tools needed to collect the things (sweet potato, cereal, jars, name labels, pushpin to make air hole in cover).
- Identify the data chart (tool) needed for the experiment. (calendar)

**CONDUCTING**

Ideas on how students may be involved in conducting the science investigation:

- Use a step process to conduct the experiment such as
  1. label container
  2. put in cereal
  3. put in sweet potato
  4. put on top
  5. poke air holes
  6. daily: mark calendar as to the status of the bug.

FYI: egg: 7-14 days; larva: 30-90 days; pupa: 10-20 days; adult: 5-10 days

## **ANALYZING**

- Check your predictions
- Summarize using a lab report
- Discuss what you found
- Count the days for each stage of the life cycle of meal worm
- Discuss whether the mealworm used the food, space, water, air

## **Disclaimer**

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**Paul V. Sherlock Center on Disabilities / RI College**  
600 Mt. Pleasant Avenue, Providence RI 02908  
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