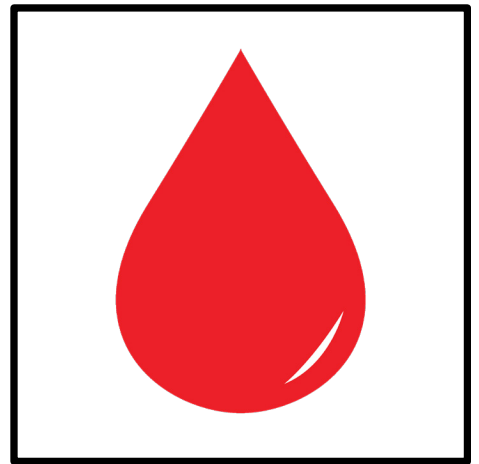
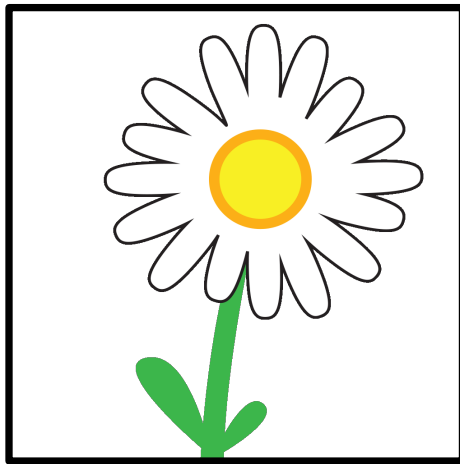
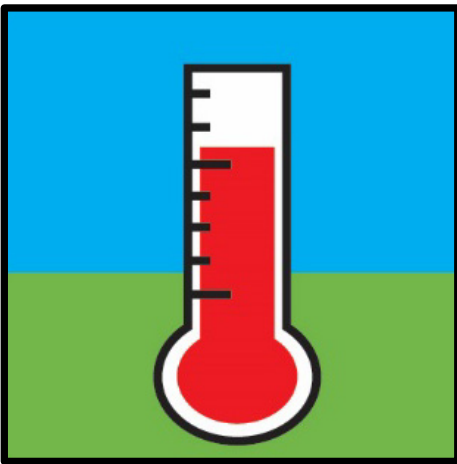
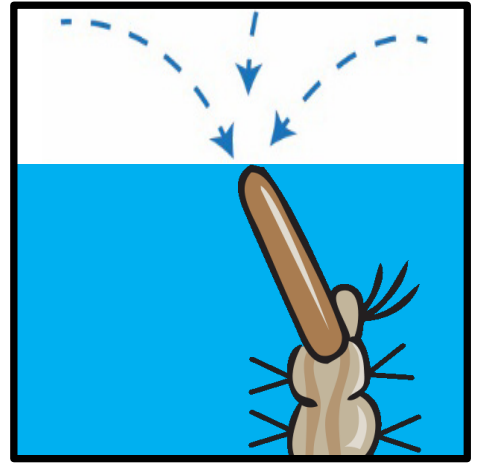
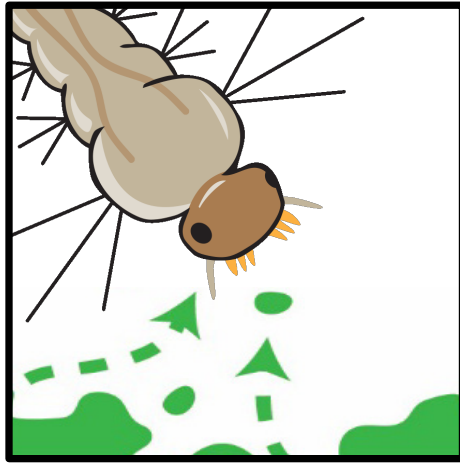


How Mosquitoes Grow

Observation Journal

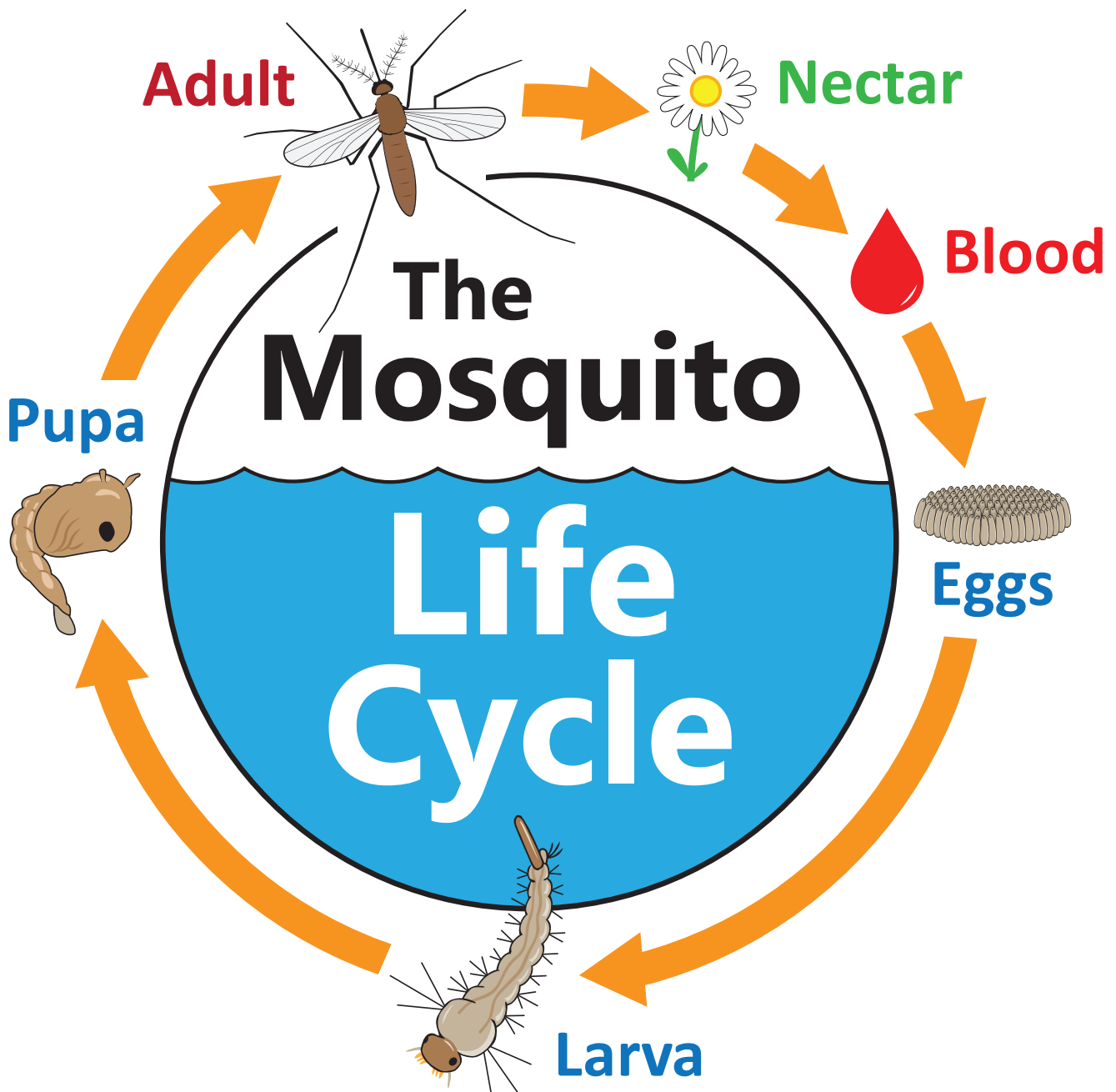


Name: _____



Instructions

- Use this journal with a mosquito life cycle kit.
- The mosquitoes will remain in the class for two weeks and during this time students chart the growth of the mosquitoes.
- Specific directions are provided at the top of each activity.

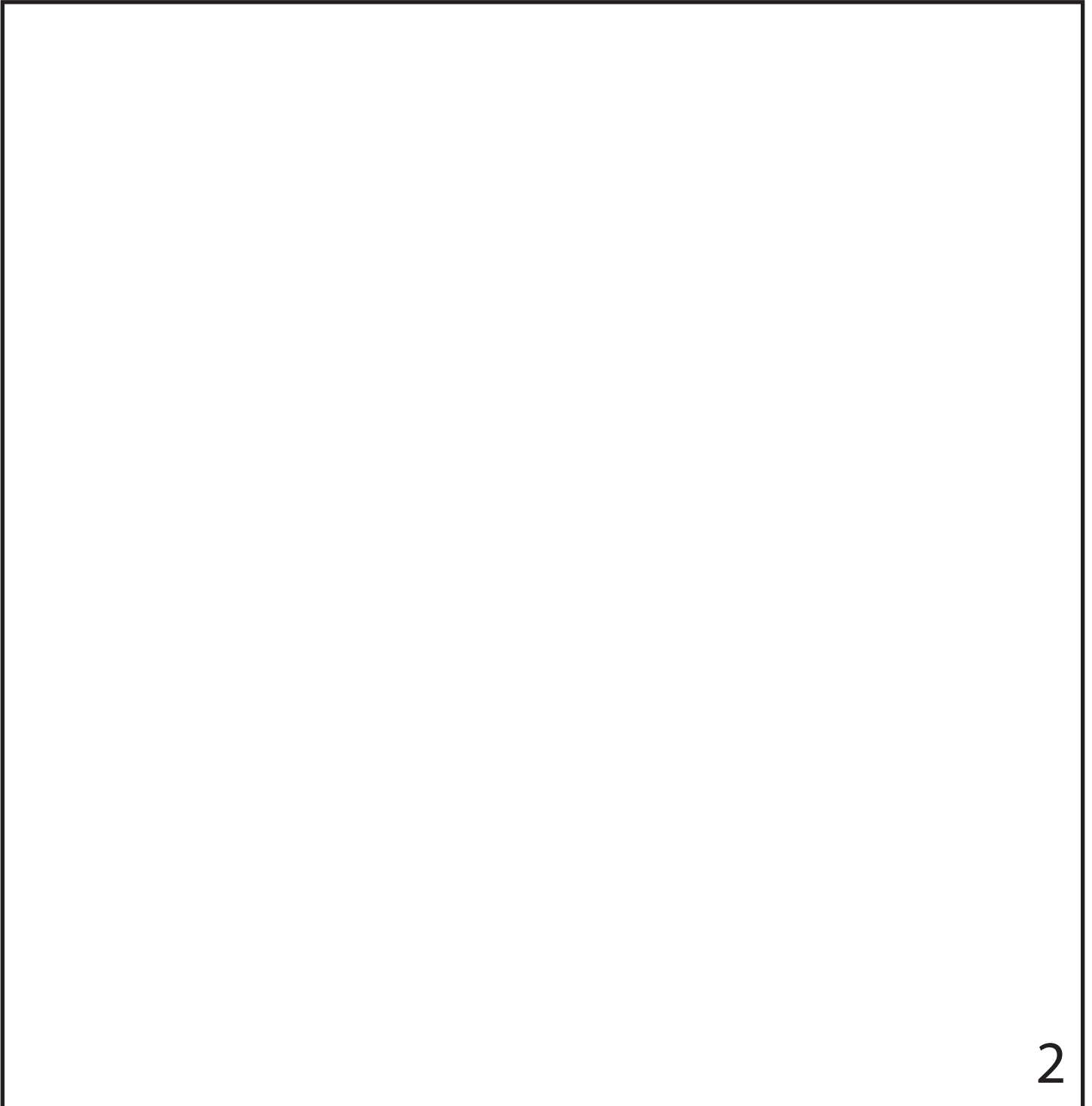


Make sure you know the four stages of the mosquito life cycle.

Complete this activity during the first week

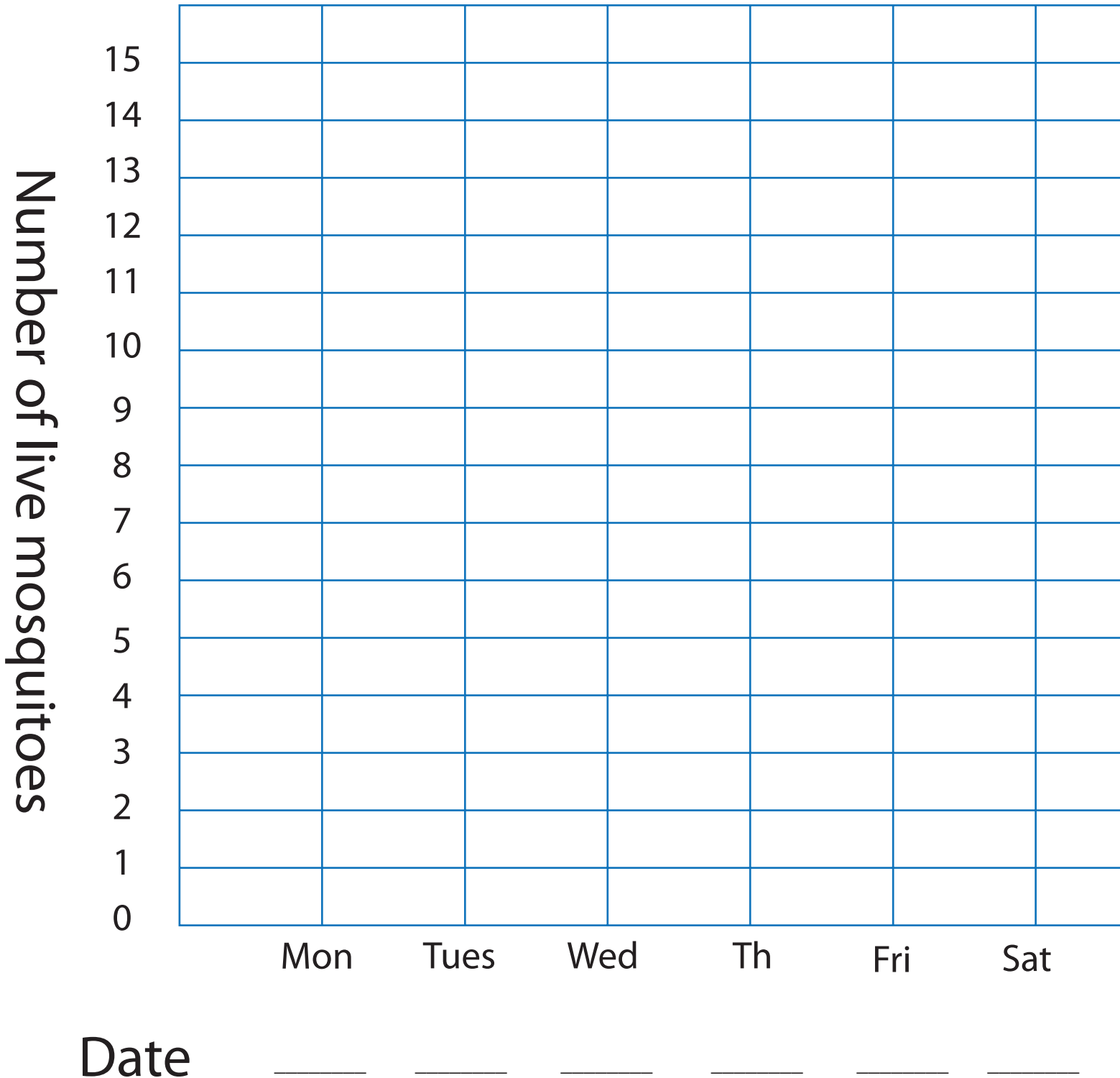
Date: _____

Draw what you see in the mosquito cage in
the space below.




A large, empty rectangular box with a black border, intended for a drawing. It occupies most of the lower half of the page.

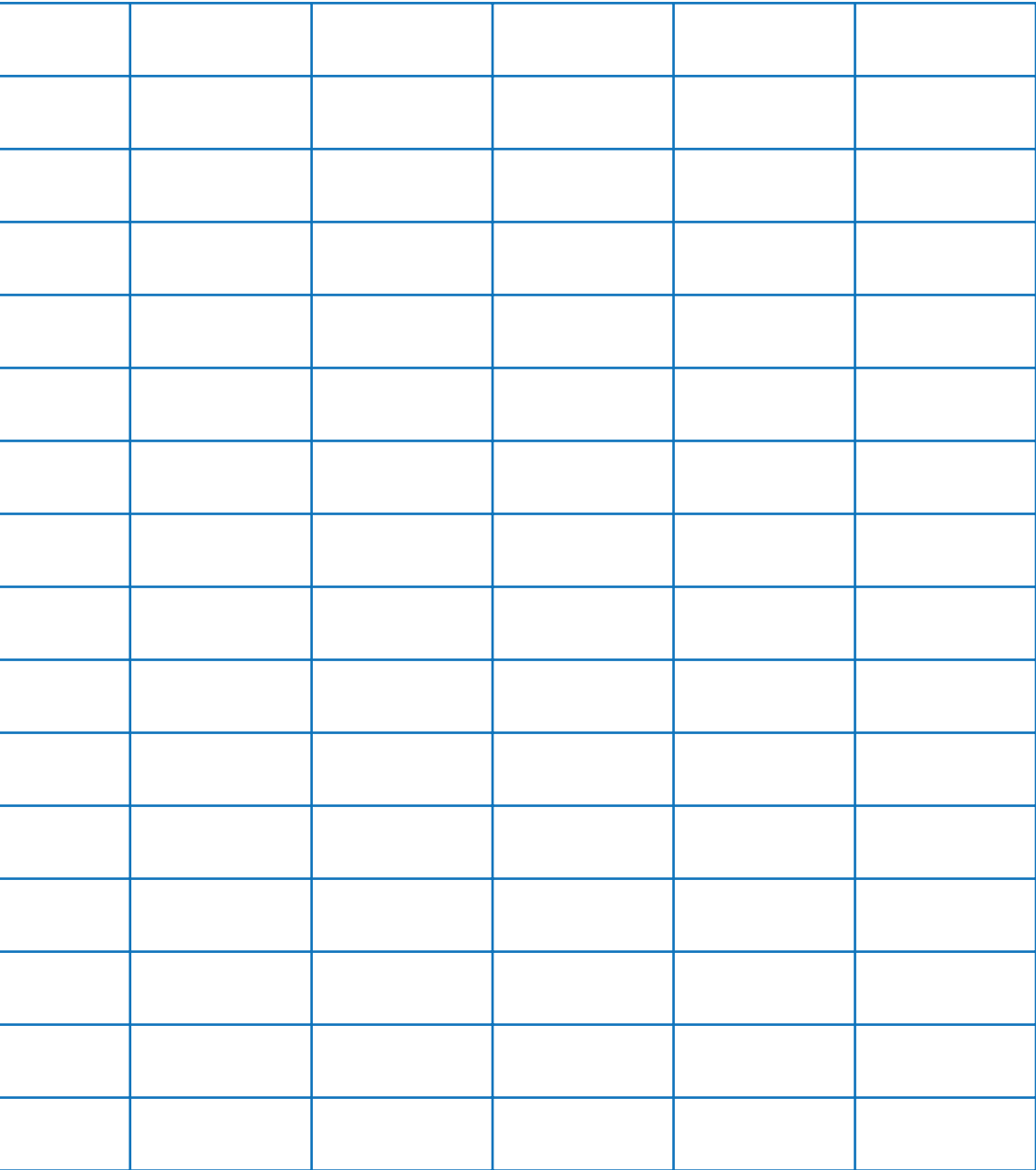
Mosquito Growth Graph

- Each day, count the number of mosquitoes in the cage, and make a **blue dot** for the number of **larvae**, a **green dot** for **pupae** and a **red dot** for **adults**.
- Connect dots of the **same color**.



Key

- Larvae 
- Pupae 
- Adults 



Sun Mon Tues Wed Th Fri

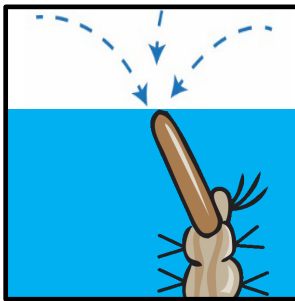
Use the clues to figure out what a mosquito **larva** needs in order to grow...

(The letters above the circled numbers will be used on page 10)



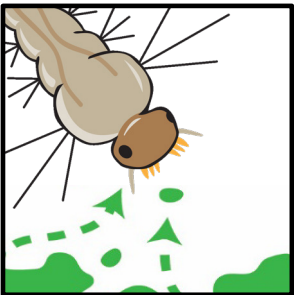
A larva cannot survive outside of...

___ ___ 7 e ___



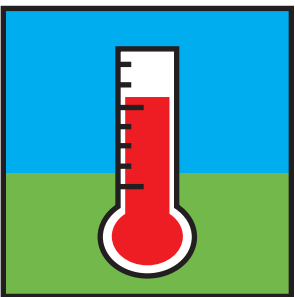
A larva comes to the surface to get...

___ X ___ ___ ___ 3 ___



A larva uses its mouth hairs to filter out tiny bits of...

___ ___ 1 ___ d ___

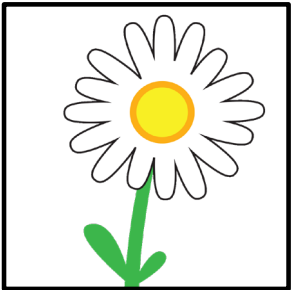


In order to grow quickly, a larva needs this from the sun...

___ ___ 10 ___ 6 ___ t ___

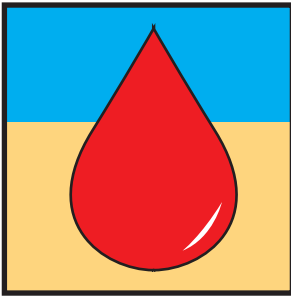
Use the clues to figure out what **adult** mosquitoes need to survive and reproduce...

(The letters above the circled numbers will be used on page 10)



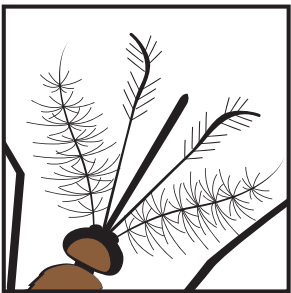
This source of food provides energy to fly...

— — **C** — — — — —
⑧



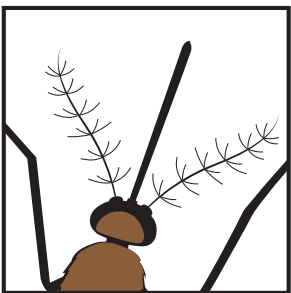
Females need this to help their eggs grow...

— — — — —
② **O** — — — — —



Males use this sense to find females...

— — — — —
⑪ — — — — —
⑤



Females use this sense to find **hosts**...

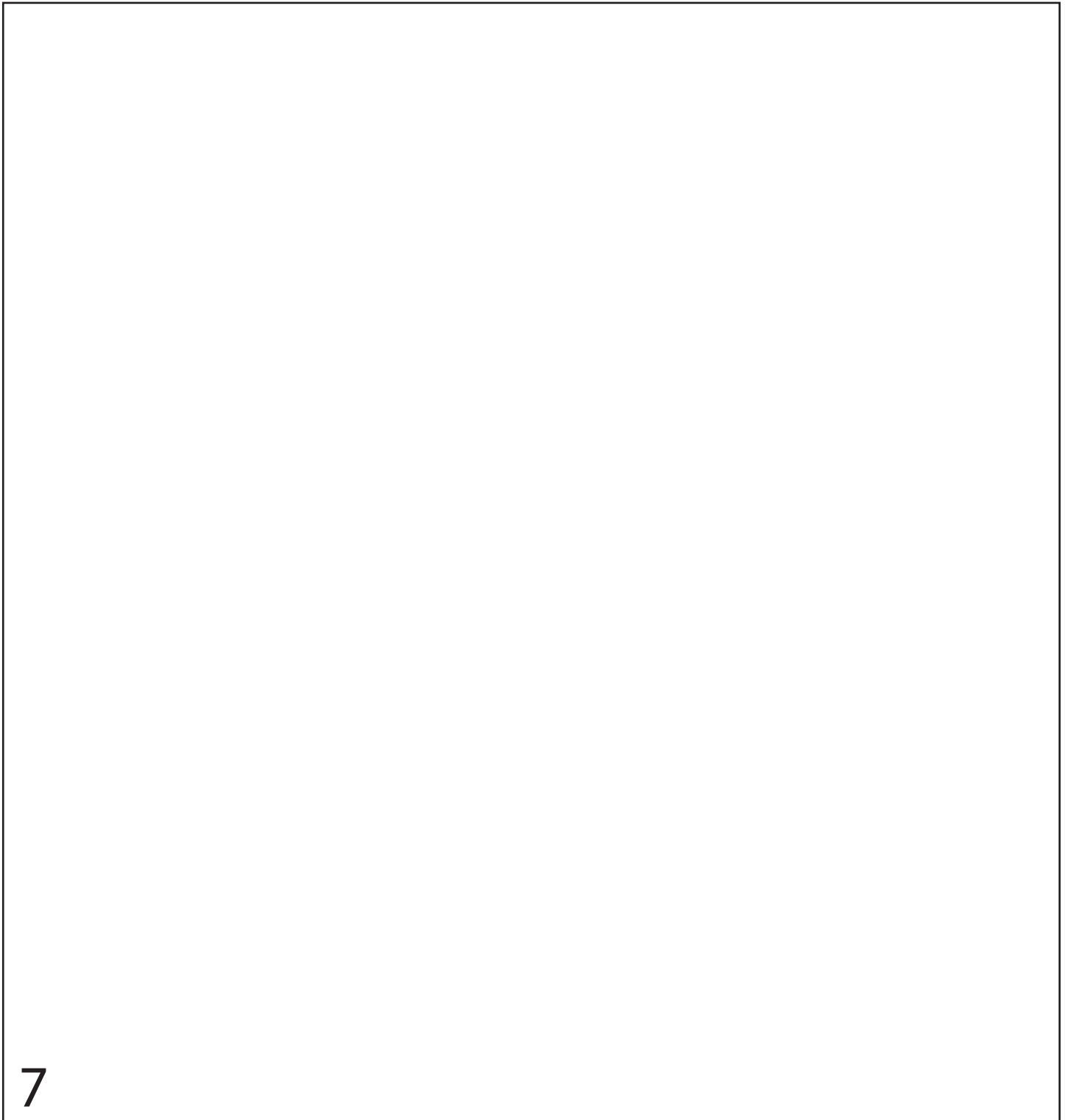
— — — — —
④ ⑨ — — — — —
I — — — — —

(if you get stuck, look in the word jar for clues on page 10)

Complete the following activities towards the end of the second week

Date: _____

Draw what you see in the mosquito cage
in the space below.

A large empty rectangular box with a thin black border, intended for a drawing. It occupies most of the page below the instructions.

Results

Look at the [Mosquito Growth Graph](#) on pages 3 & 4 to answer the following questions:

1. How many mosquitoes were alive on day 1?

Larvae: _____

Pupae: _____

Adults: _____

Total mosquitoes: _____

2. How many mosquitoes are still alive today?

Larvae: _____

Pupae: _____

Adults: _____

Total mosquitoes: _____

3. Did any mosquitoes die?
If so, how many?

Results (Continued)

4. When a mosquito larva grows, it sheds its skin. The old skin splits, and the larva wiggles out. Draw a mosquito larva shedding its old skin.



Look into the cage and see if you can find some shed skins!

5. How many of the adult mosquitoes were females? _____

6. Mosquitoes can lay lots of eggs! Imagine that the female mosquitoes in the cage were growing in someone's backyard and survived long enough to lay 200 eggs each. Multiply 200 by the number of females to find out how many eggs that would be!

Number of eggs:	200
Total number of females:	X <input type="text"/>
Total eggs:	<hr/> <input type="text"/>

That's a lot of eggs!



Mystery Puzzle



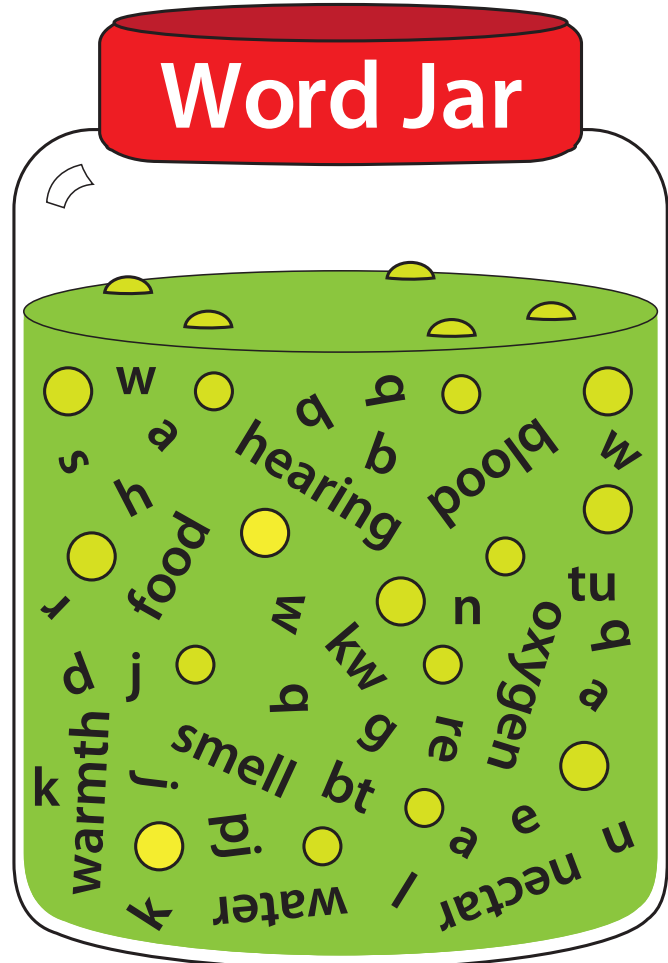
Use the letters above the circled numbers on pages 5 & 6 to solve the surprise answer below.

How mosquitoes grow and change...

P

6 3 7 10 9 1 8 11 2 4 5 4

If you can't figure out an answer on page 5 or 6, you might find some useful words hidden in this jar...



Dear Parents,

Your child has been learning about mosquitoes for the past two weeks. This program teaches students to recognize all 4 stages of the mosquito life cycle, and allows children to observe how quickly tiny mosquito larvae can grow up into adult mosquitoes. With this knowledge, your child can help identify potential places in your neighborhood where mosquitoes may grow.

Unfortunately, mosquitoes can be more than just a nuisance. They are vectors, meaning that some mosquitoes have the ability to spread certain diseases such as West Nile virus. Please visit our website at www.ms mosquito.com to learn more. The website also includes information related to:

- Free services available to residents of Marin and Sonoma counties
- Information about other vectors (such as ticks, fleas, rats and yellowjackets)
- Information about vector-borne diseases (such as West Nile virus, Lyme disease, dog heartworm, and others)

Thank you,

Eric Engh
Education Program Specialist
Marin/Sonoma Mosquito & Vector Control District
erice@msmosquito.com



Marin/Sonoma Mosquito & Vector Control District
call **1.800.231.3236** or **707.285.2200**
or visit us online at www.ms mosquito.com



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