

BUTTERFLIES

Zooworks®

Butterfly, butterfly
 High in the sky.
 Please land on my finger
 Just for a moment and linger.
 I want to admire you
 You inspire me so I'll inspire you.

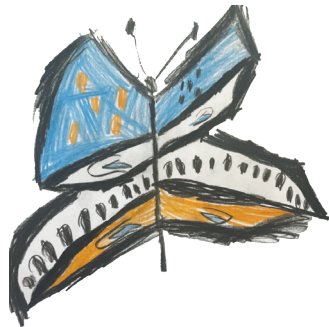
Chloe K., age 10



Lorelei H., age 8

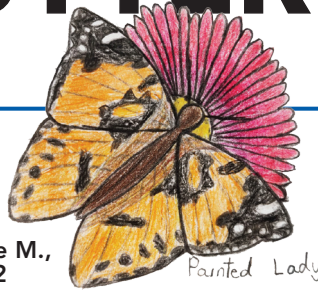
Butterfly!
 Eats nectar...
 A beautiful experience.
 One morning,
 Butterfly lands on dew.
 Sparkling wings,
 Cocoon nearby opens.
 Hello, Fluffy Junior!
 I love butterflies!

Eliza B., age 8



Kooper W., age 7

Cyndle M.,
 age 12



Painted Lady



Samson T., age 9



Dabney P., age 7

Butterflies fly in the breeze.
 I don't know if they have knees.
 Butterflies are in the big blue sky,
 They come in July.

Jack H., age 6



Lily H., age 10



Caterina M., age 6



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 even more
 fun!

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- Interactive games
- 50 pictures, poems and stories from kids like you
- Animal videos

Would you like to see your work published in **Ranger Rick Zoobooks**?

Here's what to do: Go to www.rangerrick.org/zooworks for rules and deadlines.



We want to see your original poem, story, or drawing by September 6, 2022 for "Nocturnal Animals" or November 1, 2022 for "Orangutans."

A ROYAL Traveler



Every year this butterfly with a royal name makes an incredible journey. Although it is still a mystery how this type of butterfly navigates, you can make your way through this puzzle by following the directions below. The result will be a picture of this royal traveler. See if you can find the name of this royal traveler in the pages of this book. (Answer is below.)

You will need yellow, orange, black, and brown felt pens to complete this puzzle. Then, color the squares in the grid as directed. For example, in **Row 1**, you will use black to color the squares in columns A and B. In **Row 2**, you will color the squares in columns A, C, D, T, U, and V black and the square in column B yellow. When you're finished, be sure to add antennae.

Color these squares:

Row 1 Black: A B

Row 2 Black: A C D T U V Yellow: B

Row 3 Black: A B D E R S T V W Yellow: C Orange: U

Row 4 Black: B C F R T U W Yellow: S Orange: D E V

Row 5 Black: B D E G Q S T V Yellow: F R U White: C

Row 6 Black: C F G P R U V Orange: D E Q S T

Row 7 Black: C G H P U V Orange: D E F Q R S T

Row 8 Black: D H O U Orange: E F G P Q R S T

Row 9 Black: E I O U Orange: F G H P Q R S T

Row 10 Black: E J N U Orange: F G H I O P Q R S T

Row 11 Black: E F K N T Orange: G H I J O P Q R S

Row 12 Black: F G H N S Orange: I J K O P Q R Brown: L M

Row 13 Black: G H I J K N O P Q R S T Brown: L M

Row 14 Black: G U Orange: H I J K N O P Q R S T Brown: L M

Row 15 Black: F V Orange: G H I J K N O P Q R S T U Brown: L M

Row 16 Black: E V Orange: F G H I J K N O P Q R S T U Brown: L M

Row 17 Black: E V Orange: F G H I J K N O P Q R S T U Brown: L M

Row 18 Black: E K N V Orange: F G H I J O P Q R S T U Brown: L M

Row 19 Black: F J O U Orange: G H I P Q R S T Brown: L M

Row 20 Black: G J P U Orange: H I Q R S T Brown: L M

Row 21 Black: G H I Q R S T

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	
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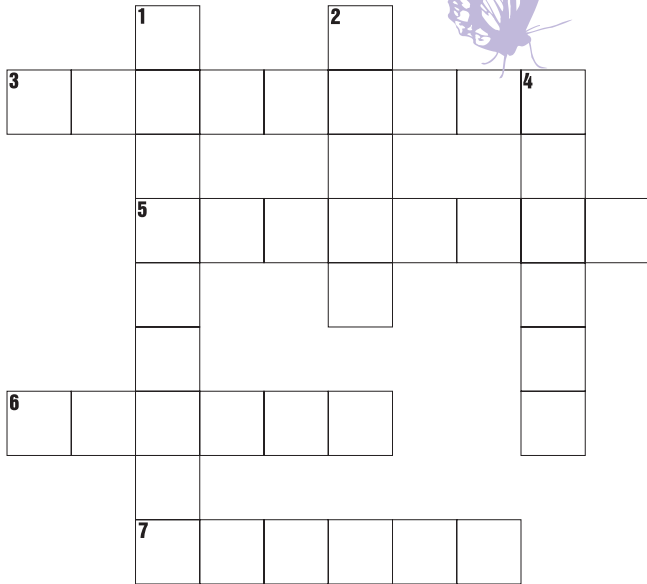
Answers: Mirror, Mirror on the Wall: Top Right, monarch butterfly; Upper Middle, MOTH; Lower Middle, WITH A CAMERA; Bottom Right, owl butterfly from South America.

Answer: A Royal Traveler: The butterfly pictured is a monarch. You can learn more about it by reading pages 12 and 13.

Answers:
The Butterfly Crossword

P	T																							
C	H	R	Y	S	A	L	I	S																
O																								
B																								
S																								
N																								
E																								
S																								
C																								

The Butterfly Crossword



Across

- Another name for a cocoon. (pg.4)
- Where nectar is found. (inside cover)
- What butterflies drink. (pg. 6-7)
- "Shingles" on a butterfly's wing. (pg. 6)

Down

- A butterfly's drinking tube. (pg. 7)
- Butterfly feet. (pg. 6)
- Monarchs begin migration in mid_____. (pg. 12)

Build a Butterfly Farm



You can build a butterfly farm and watch caterpillars change into butterflies. **You will need:** a large box, a hammer, a nail, a jar with a lid, scissors, tape, a sheet of clear plastic (try to recycle a clear plastic bag).

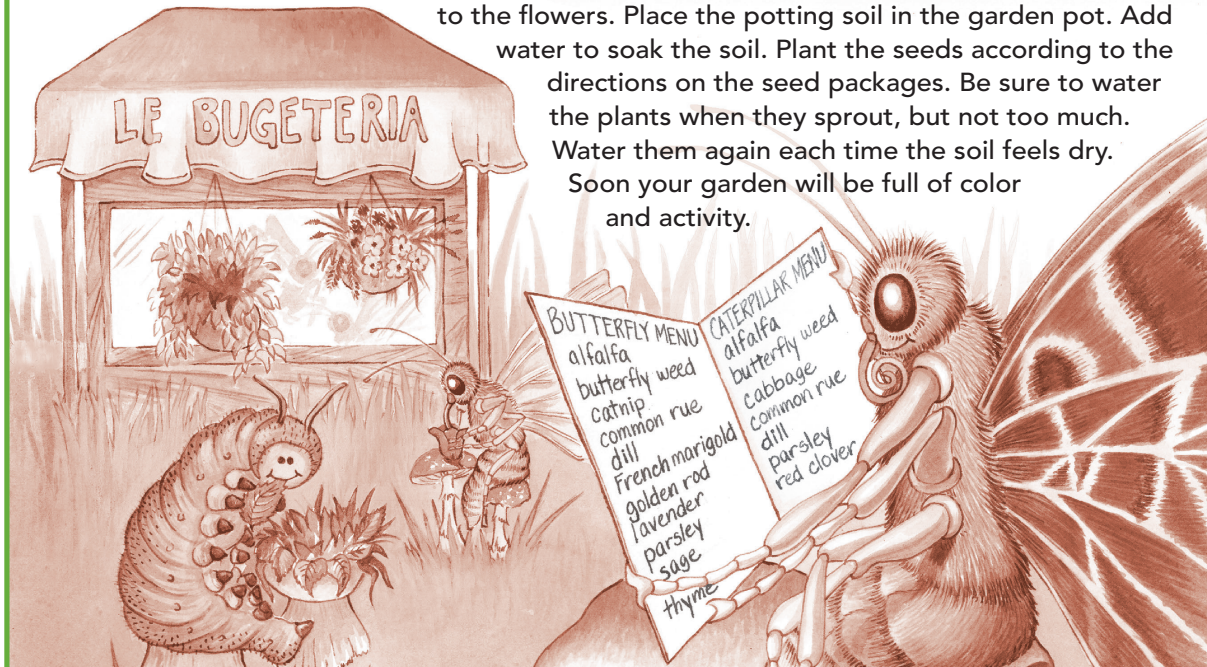
- Ask an adult to help you poke several holes in the box so that the caterpillars can breathe. Then, have the adult make four large holes in the lid of the jar with the nail. Fill the jar with water and replace the lid.
- Collect some caterpillars and the parts of the plants that they are on. Stick the stems of the plants through the holes in the jar lid. The stems should be long enough so that the plants will stay in the water. Place the jar inside the box.
- Cut the sheet of clear plastic so that it is large enough to cover the side of the box. Tape it over the ends of the box so that the caterpillars can't get out, but you can see in.
- Watch the caterpillars grow each day. Make sure they always have enough food. Be sure to keep the box out of direct sunlight so the caterpillars don't get too hot.

In time, some of the caterpillars will change into a chrysalis. This may take anywhere from a few days to several weeks. As soon as the butterflies emerge, remove the clear plastic. Watch, **but do not touch**, as the butterflies dry and fly away.

Caterpillar Cafe

YOU WILL NEED:
a garden pot
potting soil
seeds

You can open a caterpillar and butterfly restaurant! Choose seeds from the menus below. All of these seeds will grow into plants that are favorite foods of caterpillars and butterflies. Caterpillars will munch on the leaves, while butterflies will flock to the flowers. Place the potting soil in the garden pot. Add water to soak the soil. Plant the seeds according to the directions on the seed packages. Be sure to water the plants when they sprout, but not too much. Water them again each time the soil feels dry. Soon your garden will be full of color and activity.



- | BUTTERFLY MENU | CATERPILLAR MENU |
|-----------------|------------------|
| alfalfa | alfalfa |
| butterfly weed | butterfly weed |
| catnip | cabbage |
| common rue | common rue |
| dill | dill |
| French marigold | parsley |
| golden rod | red clover |
| lavender | |
| parsley | |
| sage | |
| thyme | |

MIRROR, MIRROR on the Wall

Have you ever noticed how the wings of a butterfly appear to be reflections of each other? You can demonstrate this yourself by holding a flat-edged mirror on the dotted line at right. See how the two sides look identical. Draw the missing half of the butterfly to show its mirror image.

Continue experimenting with mirror images by completing all of the activities on this page. You will need a small mirror with a flat edge and a pencil or felt pen. Place the mirror along the dotted line in each example to see the image and its reflection. Each image will help you learn more about butterflies and reflections.



What's the best way to hunt a butterfly?

(Find the mirror image of each incomplete letter to write the answer.)

What animal is the butterfly's closest relative?

(Finish the letters to write the answer.)

**M
C
T
F**

Which butterfly is sometimes mistaken for an owl?

(For more information about this butterfly, turn to page 11.)

V U H A C A N E R A

Next Step:

You've probably learned about mirror images in science. Perhaps you've even talked about reflections, which are sometimes called flips, in your math class. Another way of making a mirror image is by folding a sheet of paper in half. Open the paper, and place drops of paint on one half of it (use two or three colors). Then, close the paper and press firmly. Immediately open the paper and see what looks like mirror images.

In art, this is called symmetry.

