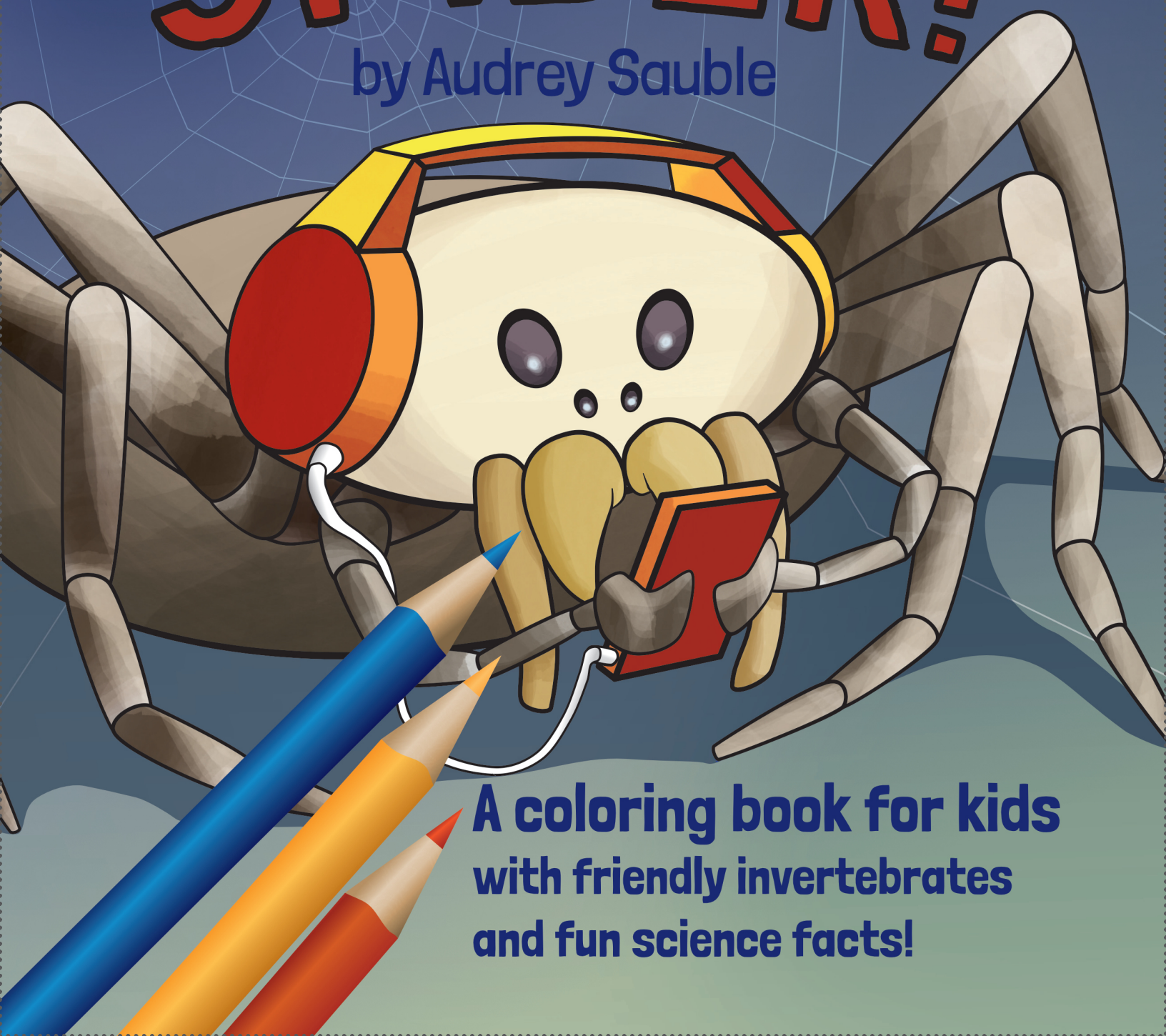


BUG | BUG SPIDER!

by Audrey Sauble



**A coloring book for kids
with friendly invertebrates
and fun science facts!**

BUG | BUG SPIDER!

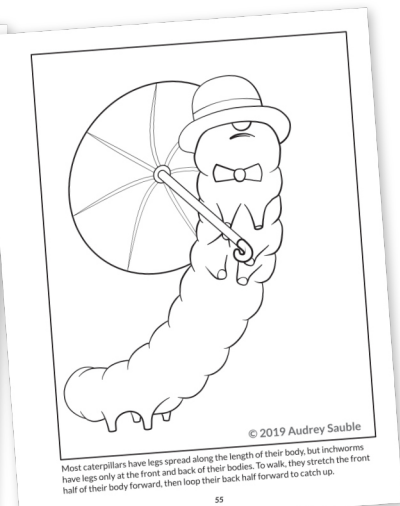
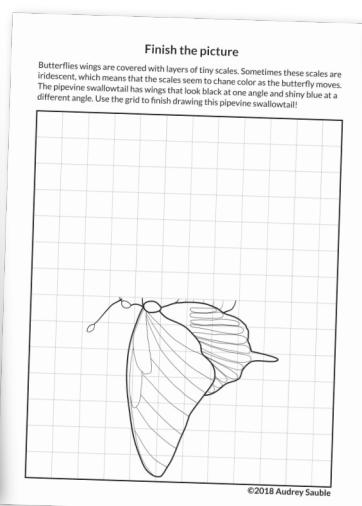
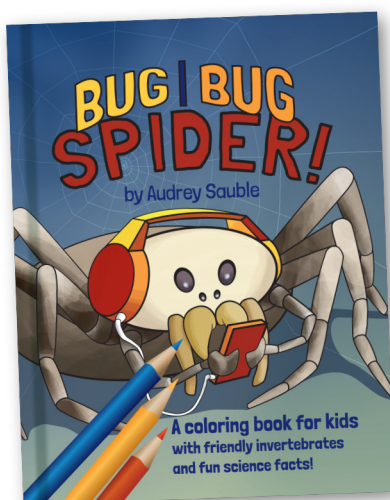
by Audrey Sauble

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A print version of this book is available on [Amazon](https://www.amazon.com).



Your Own Pair of Wings

For this project, you will need:

- A large paper grocery bag
- A pen, pencil, or crayon
- Scissors (*Make sure you have permission to use them first.*)

Fold the bag flat. Where the bottom flap folds down, draw a straight line across the front of the bag. Draw a large dot at each corner of this line.

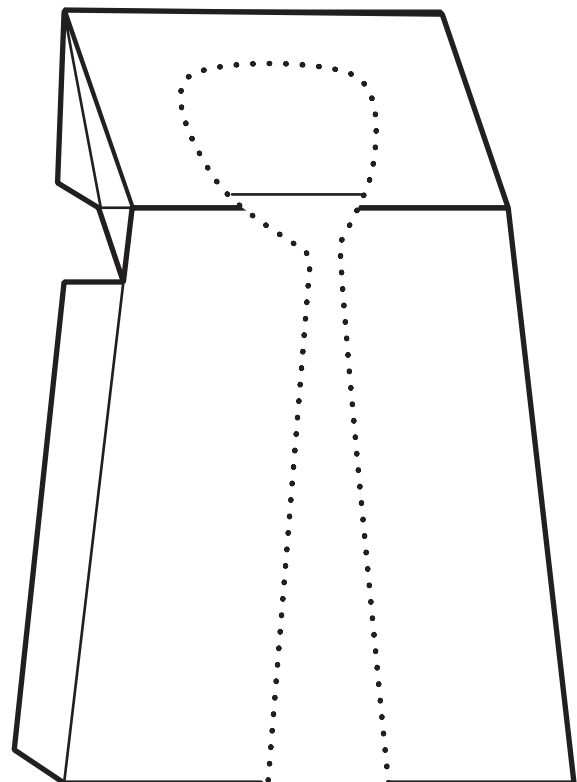
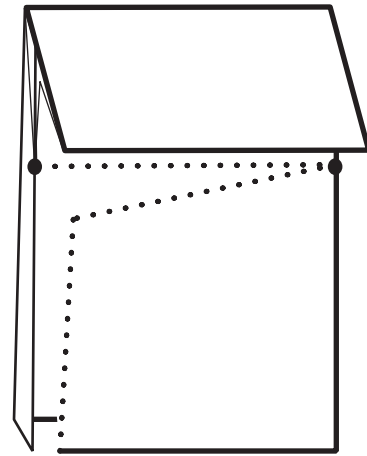
With the scissors, cut up one edge of the bag to the first dot. Turn the bag and cut along the line to the dot on the other side. Then turn the bag again, and cut down that side to remove the front panel.

Starting at one of the dots, cut across the side of the bag from the front to the back edge. This creates an open flap on the side of the wings.

On the other side, cut from the second dot toward the back edge to create another flap.

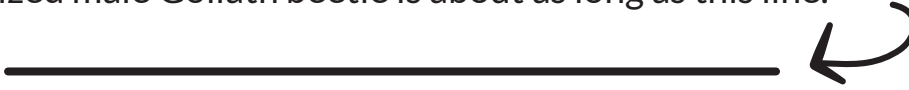
Turn the bag over. Cut a straight line up the middle of the back, dividing that panel in half. When you reach the bottom of the back, cut a large circle out of the bottom of the bag. This forms the neckline. The two halves below are the wings.

Put the wings on and wear them like a cape.



How Big Is That Beetle?

An entomologist is a scientist who studies insects. One way entomologists study insects is by measuring how long they are and how much they weigh. For example, an average-sized male Goliath beetle is about as long as this line.



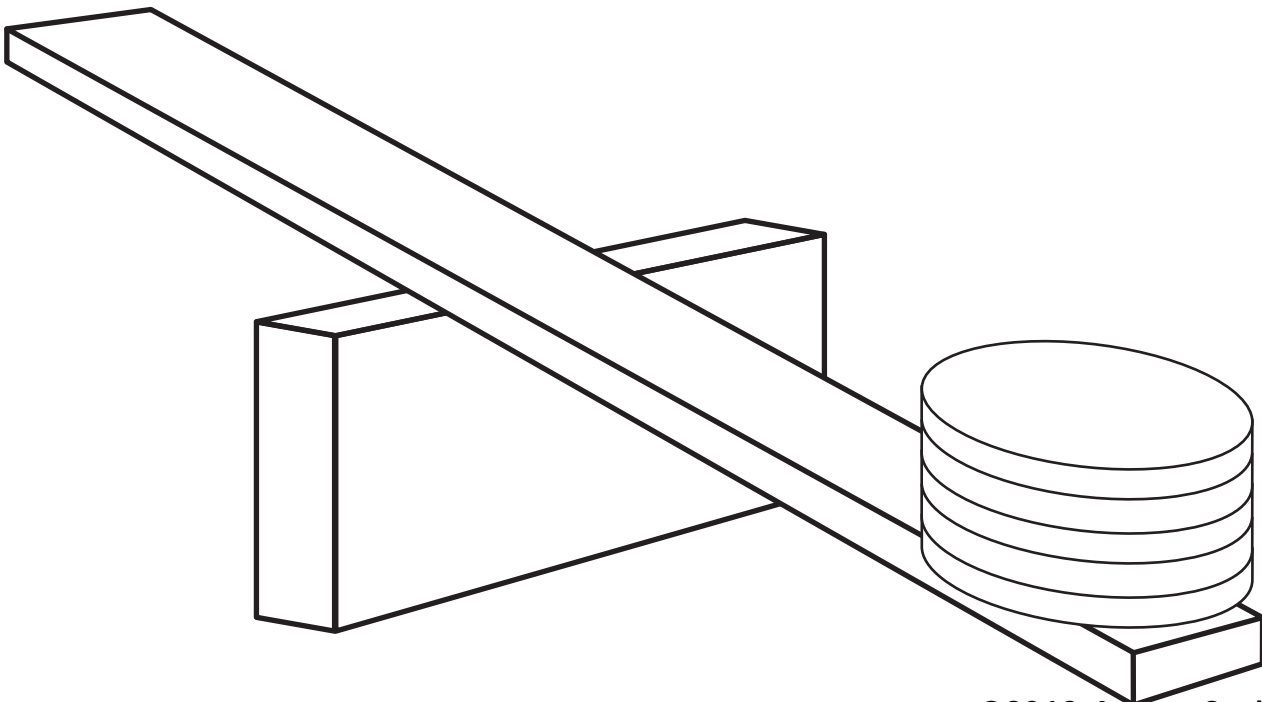
The average Goliath beetle also weighs just over an ounce, but how much is one ounce, exactly? In US coins, an ounce is the weight of five quarters. Or, it is equal to five or six small carrot sticks. Or, it can be the weight of half of a mandarin orange. You can use a ruler and an eraser (or other small block) to create your own scale and weigh objects yourself.

To make your scale, stand the eraser on its side. Balance the ruler across the eraser, making sure that the ruler is level. The eraser must be placed at the center of the ruler or the scale will not work right.

Find five quarters and place them on one end of the ruler. Carefully place the item you want to weigh on the other end of the ruler. Make sure to keep them the same distance from the center of the scale, so that the scale can balance them correctly.

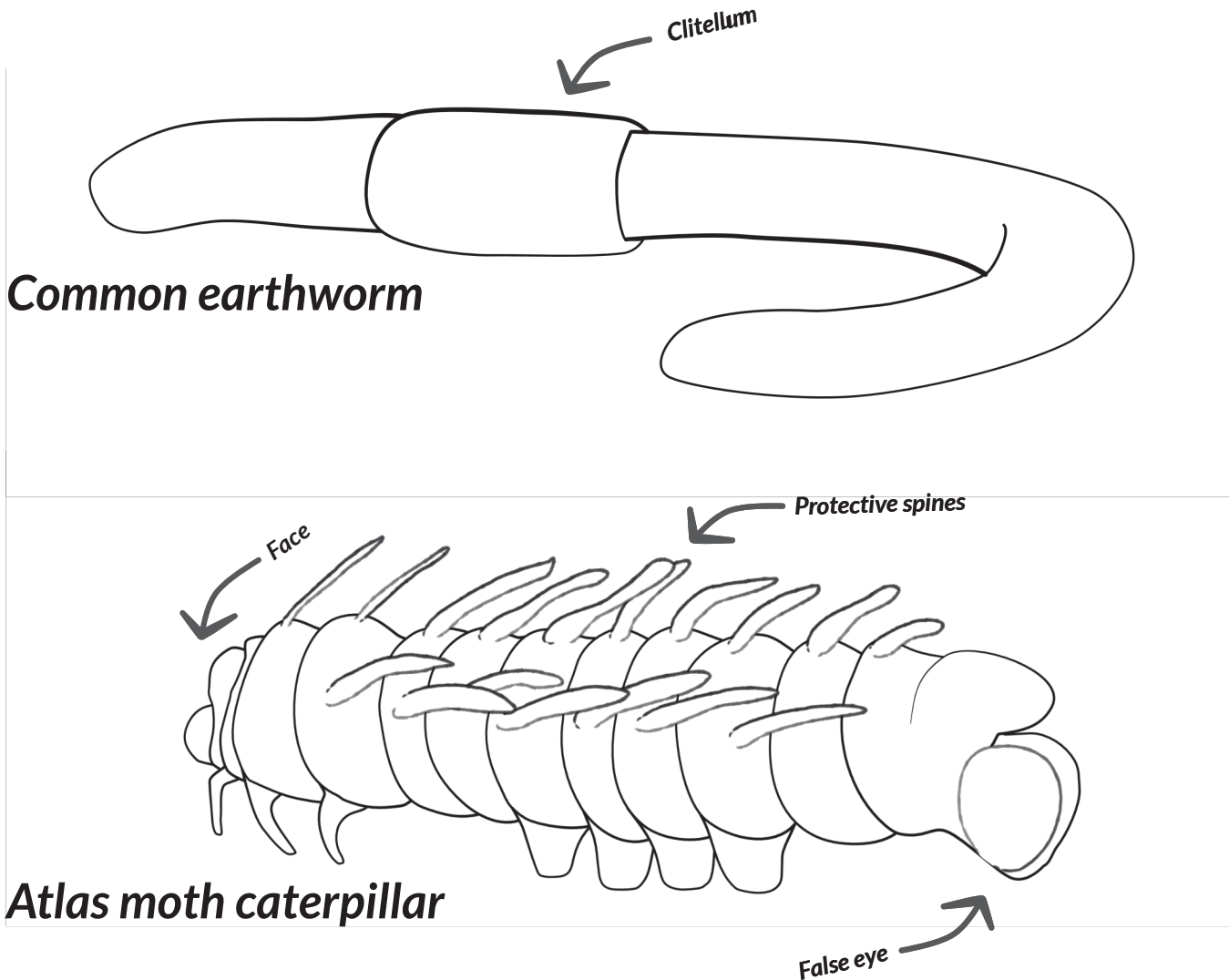
If the two sides weigh the same, the ruler will balance and be level. If one side is heavier, it will push that end of the ruler down toward the table.

Try weighing several more objects and comparing their weights. Can you find anything that is the same length *and* weight as a Goliath beetle?



Spot the Difference

Earthworms and caterpillars may look similar in shape, especially when they are small, but they aren't related at all. Worms get bigger as they grow, but they remain worms. Caterpillars grow up to become butterflies or moths. Color the pictures below and find at least four other differences between caterpillars and worms.



Answer: Caterpillars have legs and eyes; earthworms do not. Worms have a clitellum (the wide band around their body), but caterpillars do not. Caterpillars can be many different colors, but worms tend to be pinkish-brown. Worms live underground, while caterpillars tend to live on plants. Worms eat dead plant matter, but caterpillars tend to eat leaves or plants that are still growing.

Note: Average-sized caterpillars and worms are about the same size. The largest worm, though, is around three feet long, which is several times larger than the largest caterpillar.

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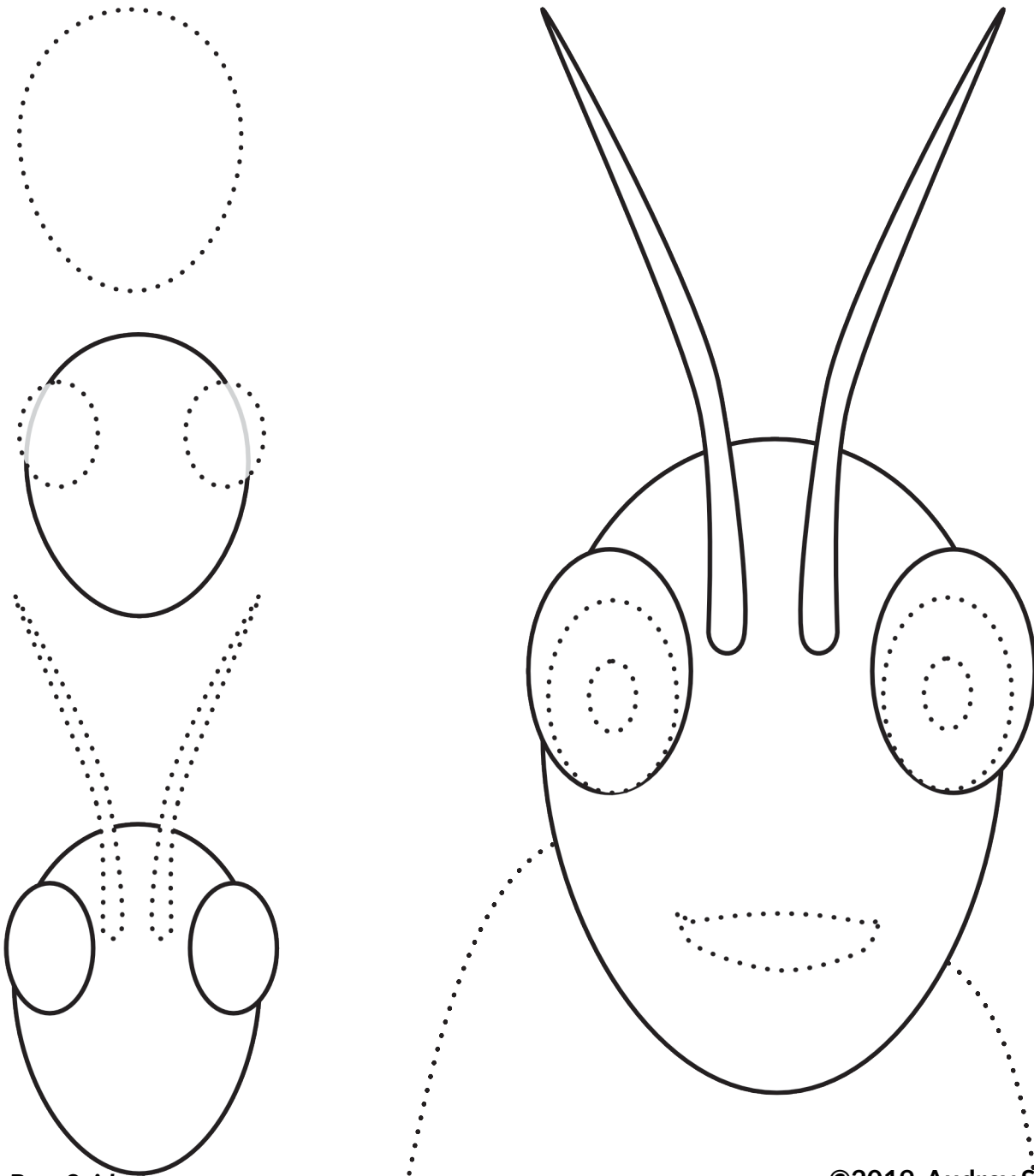
Draw a Cricket Face

To draw a cricket, start by drawing an oval. You can trace the circle below or draw your own on a blank piece of paper. Try to make the oval shorter at one end and longer at the other, very much like a human face.

Then, toward the top of the oval, draw two small ovals for eyes.

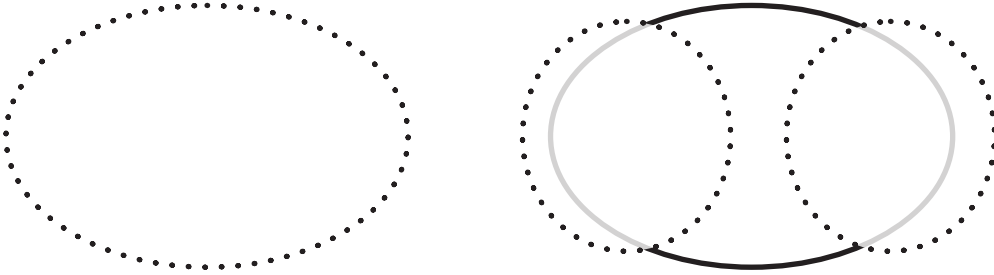
Draw two slightly curved antennae.

Finally, add a mouth, a few other details, and some color to your cricket.

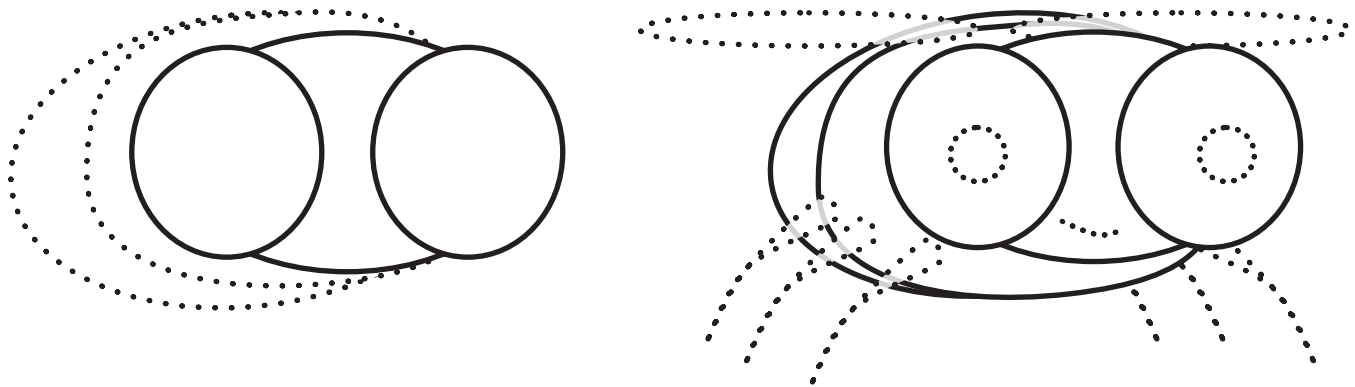


Draw a Fruit Fly

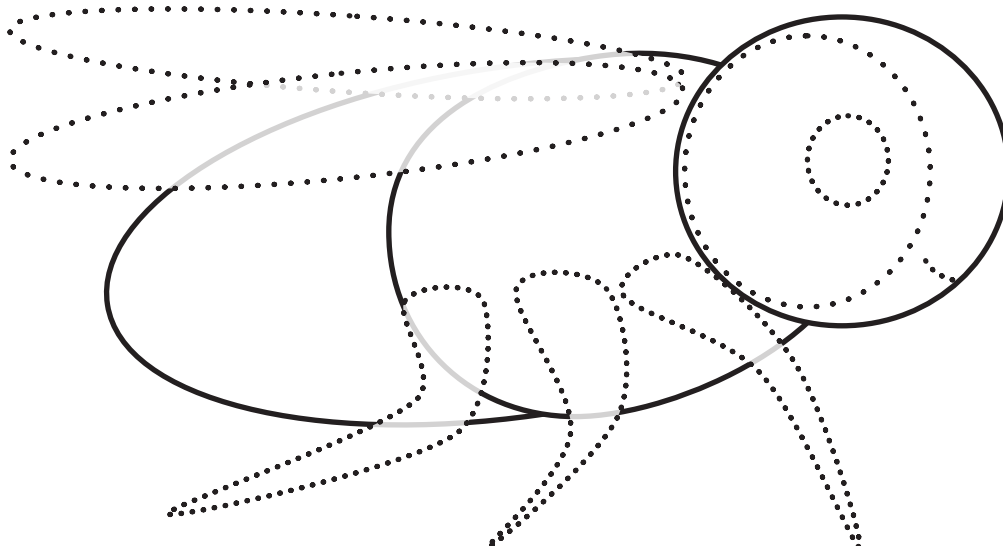
Flies, especially fruit flies, tend to be small and move very quickly. They don't sit still for long, which makes it hard to study or draw them. Flies have a fairly simple shape, though. To draw a fly, start by drawing an oval lying on its side. Then draw two circles, one on each side of the oval.



Behind the fly's head, draw two more small ovals, one slightly larger than the other, for the fly's body. Add two very thin ovals for wings, six legs, and some other details.

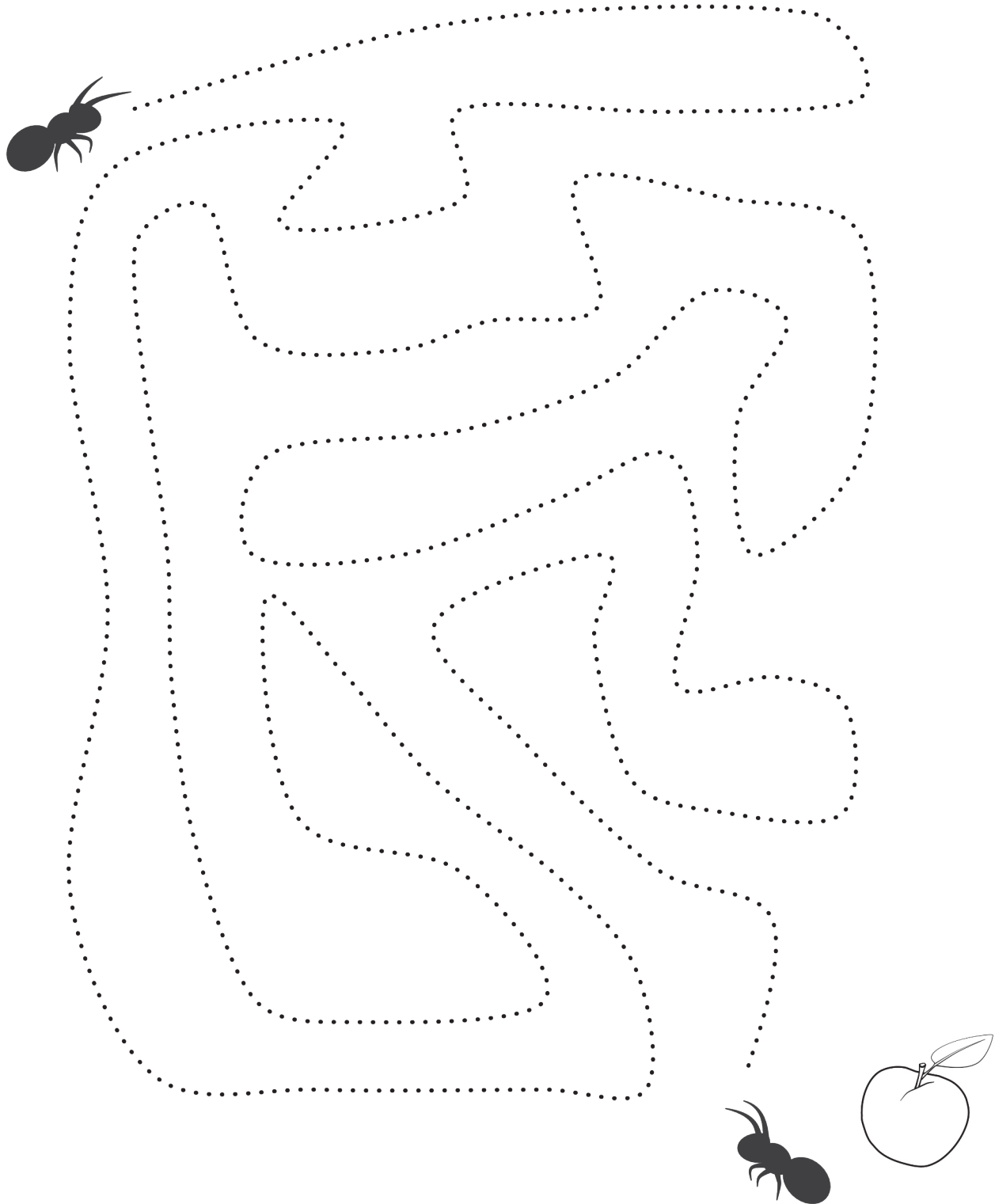


If you want, you can also draw a fruit fly from the side. Try practicing this on a blank sheet of paper. Start by drawing a circle for the fly's head, a short oval for its thorax (or chest), and a longer oval for its abdomen. Then add the other details.



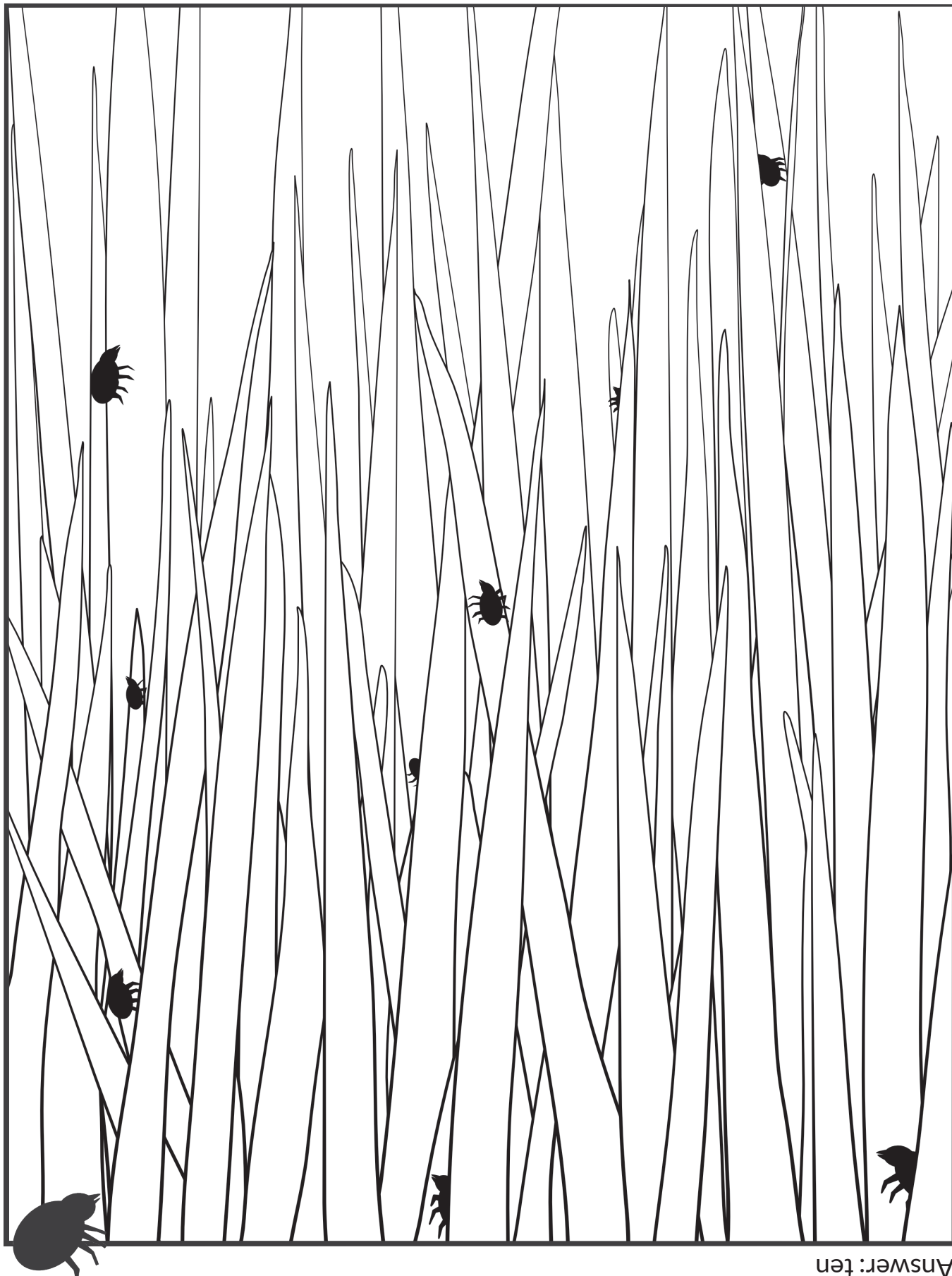
Treasure Hunt

When ants find food, they mark a trail to it using a special chemical called a pheromone. Other ants follow this trail to find the food and carry it back to their nest. Help this ant trace the dots to follow the trail to the food.



Bonus idea: use beads or small toys to make a trail for someone else to follow.

As you might guess from their method of catching a ride, ticks are good at hiding.
How many can you find hiding on this page?



Bug, Bug, Spider!

Answer: ten
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Mosquito with a Straw

For this project, you will need:

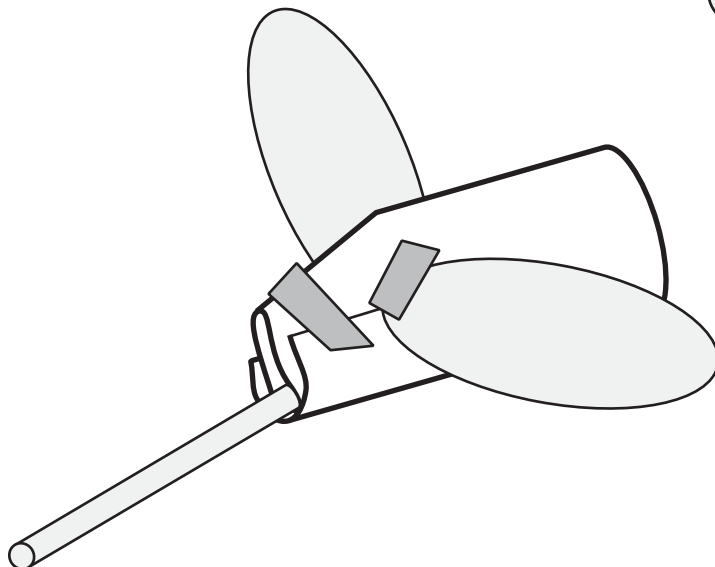
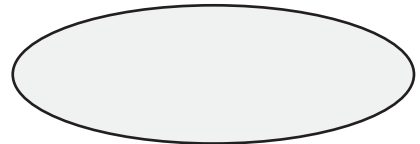
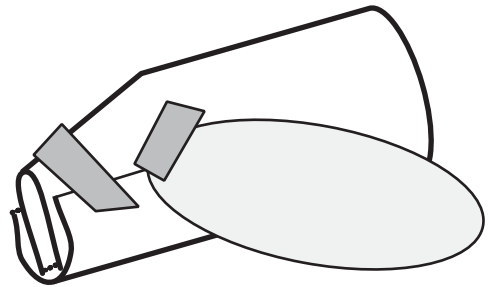
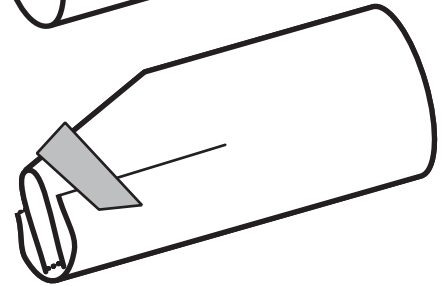
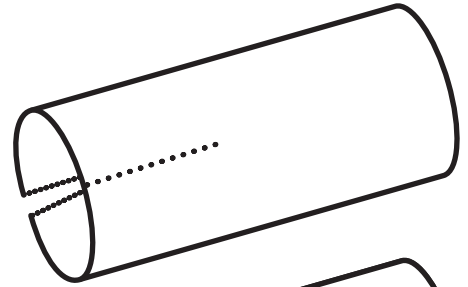
- An empty paper tube
- A white piece of paper
- A plastic straw
- A pen, pencil, or crayon
- Tape
- Scissors (*Remember: make sure you have permission to use them first.*)

At one end of the paper tube, cut a straight line about two inches long down the side of the tube. Turn the tube over and cut a matching line on the opposite side.

Using the cut section, fold one half down. Fold the other half around the first half and tape it together. This forms the mosquito's head.

On the white piece of paper, draw two ovals about as long as the tube. Cut these out and tape them to the tube, next to the head, for wings.

Slide the straw into the tube, so that a large section pokes out the mosquito's "mouth." Draw a pair of eyes, and take your mosquito for a flight.



Bug Hunt

Find a place outside to explore and look for insects and other invertebrates. A warm, sunny day will work the best, but even if it's cold, you might find some of them hiding under leaves, branches, or rocks.

Make sure to take an adult with you while you are exploring outside. Also, like all wild things, many invertebrates are harmless, but others can bite or sting. Please do not touch or try to pick up the ones you find.

How many invertebrates can you find?

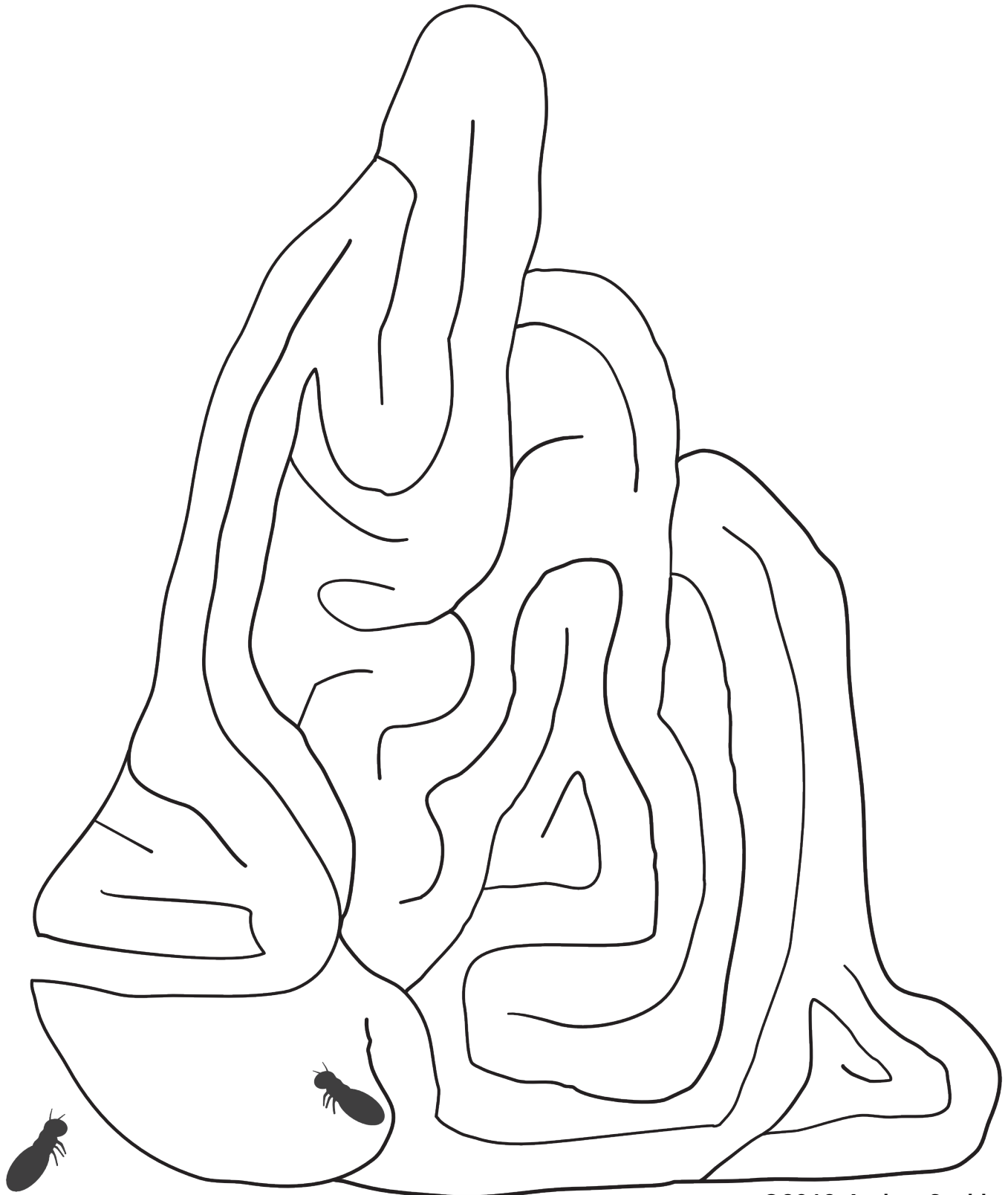
What other invertebrates can you remember seeing in the past?

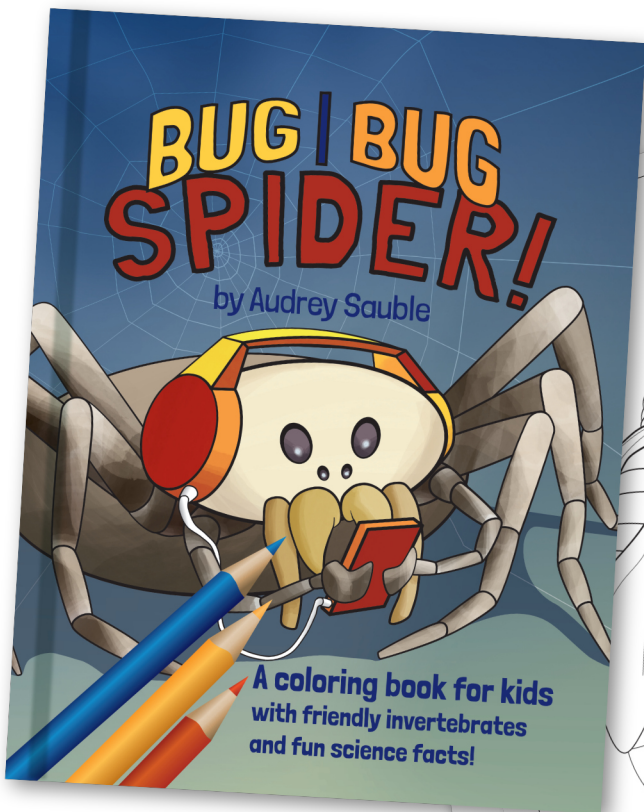
Draw one of the invertebrates you find:

Hint: If it's too cold to find invertebrates outside, look in the corners of your room. You may be able to find a spider, ant, or fly hiding inside.

Finding a Way

Different species of termites build their mounds in different shapes. Some species build tall spires. Others build round domes. Inside any termite mound, though, there is a network of tunnels and storage chambers. Help this termite find its way through this mound to the room where the second termite is waiting.

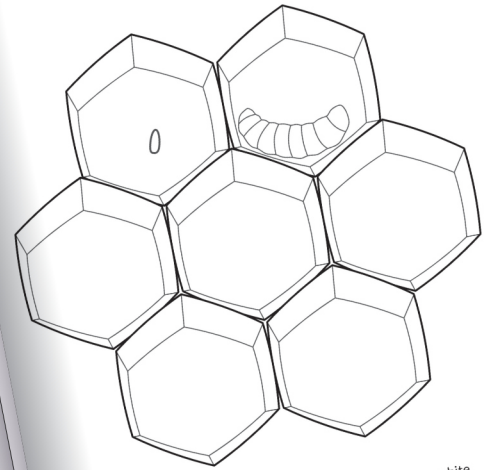




Bees belong to one of the smaller insect families, but there are still almost 20,000 species of bees. Some of them travel in swarms. Some travel alone. Not all of them make honey, but all of them are important for pollinating plants.

A home for a bee

Honeybees build honeycombs out of wax to store their honey. They also use some of the cells in the honeycomb as nests for their eggs and larvae. Draw an egg or a larva in each of the cells below and color the picture!



Note: honeycombs are mostly yellow, but bee larvae and eggs are white.

The full version of this book with 62 pages of coloring pages, mazes, puzzles, craft ideas. Find it now on [Amazon!](#)