

Make Your Own Mosquito

Project & Assembly Directions

Objective

Students will learn the different parts of the mosquito anatomy by assembling their own mosquito replica.

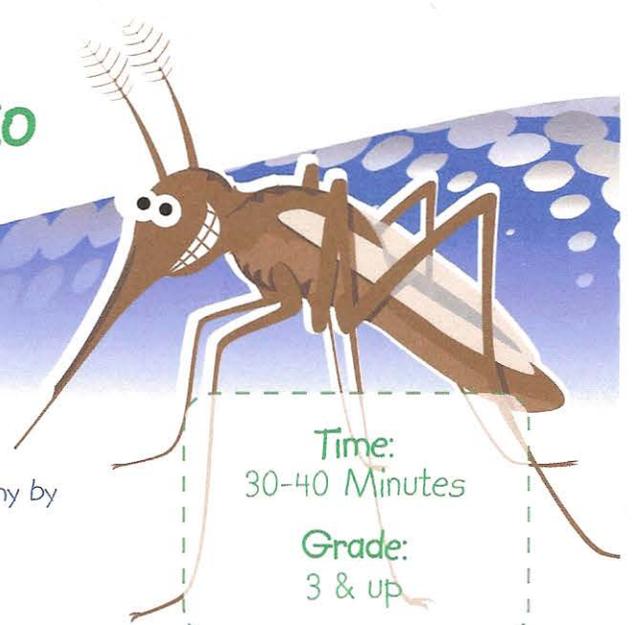
Materials

1. 1 sheet of vellum (thick paper)
2. Black markers
3. Proboscis wire
4. Black pipe cleaners
5. White construction paper
6. Glue
7. 5/16" round adhesive labels
8. Push pin or small hole punch
9. Stencils-body and wings
10. Pencil
11. Scissors

Content

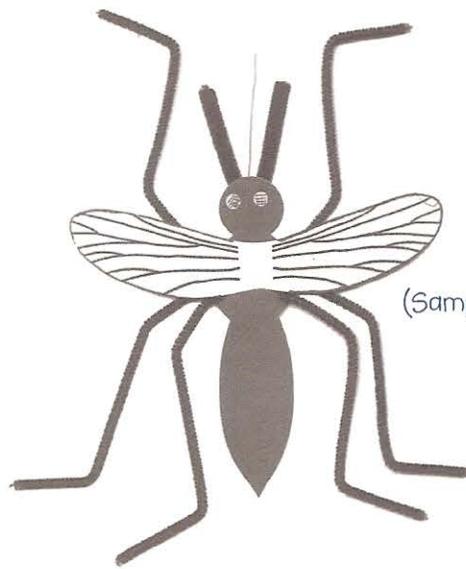
The mosquito's body is divided into three parts, the head, thorax, and abdomen. The head consists of two large compound eyes that have numerous lenses. The head has two antennae, which act as "feelers" on the mosquitoes, also helping it sense it's direction. The mouth is a tube-like structure, called the proboscis. Both the male and female proboscis is used to sip plant juices, while the female's proboscis is used to bite into flesh and feed on blood.

The head connects to the thorax with a very thin and short neck. The thorax is shaped somewhat like a triangle, with color patterns that help scientists identify them. The thorax has six legs coming out. Each leg has a pair of tiny claws, which help to balance the mosquito when climbing, or hanging upside-down on a ceiling. The wings are also located on the thorax.



Time:
30-40 Minutes

Grade:
3 & up



(Sample Finished Product)



Check out our website at www.MosquitoEd.com

Design by Think Tank Solutions: www.thinktank360.com

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Content Continued

Connected at the end of the thorax is the abdomen which is like a long and slender tube. There are spiracles along the side of the body which the mosquito breathes through. The abdomen has eight pairs of spiracles, while the thorax has only two. The air flows in through these spiracles and gets to the whole body by way of tubes inside.

Procedure

1. Print the pages with the mosquito body for each child on thick paper.
2. Cut out mosquito body.
3. Label the 3 main parts of the mosquito body on one side of the mosquito body. Color the other side black with markers or crayons.
4. Bend body along center (see diagram).
5. Push 6 holes through the thorax with a push pin where the dark circles are (see diagram).
6. Carefully push three pipe cleaners through the holes (see diagram).
7. Glue the pipe cleaners in place. Put a dab of glue next to each hole to secure pipe cleaners to body.
8. Glue antennae and proboscis wire in place (see diagram).
9. Let dry thoroughly.
10. Stick two adhesive labels on the head for eyes.
11. Draw criss cross pattern on the eyes to illustrate the multiple lenses making up its compound eye.
12. Place mosquito on bending page and bend the legs according to the illustration.
13. Cut wings out from the pattern and glue them to the body marked "glue wings here".

Sunshine State Standards

Standard: SC.F.1.2 The student describes patterns of structure and function of living things.

Benchmark: SC.F.1.2.3 The student knows that living things are different but share similar structures

Standard: SC.G.1.2 The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark: SC.G.1.2.2 The student knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

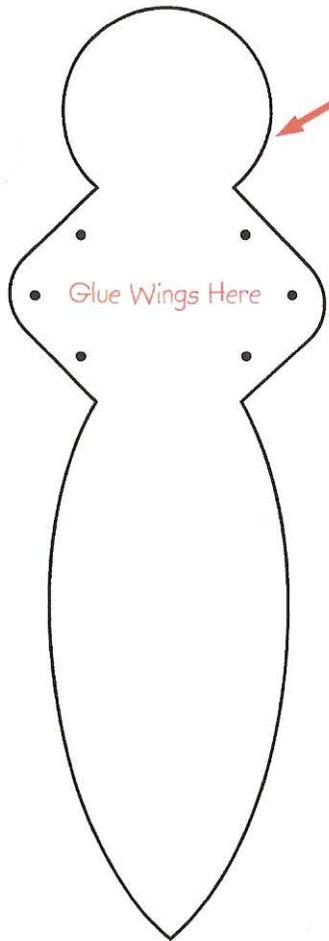
Benchmark: SC.G.1.2.5 The student knows that animals eat plants or other animals to acquire the energy they need for survival.

Standard: VA.A.1.2 The student understands and applies media, techniques, and processes.

Benchmark: SC.F.1.2.3 The student knows that living things are different but share similar structures

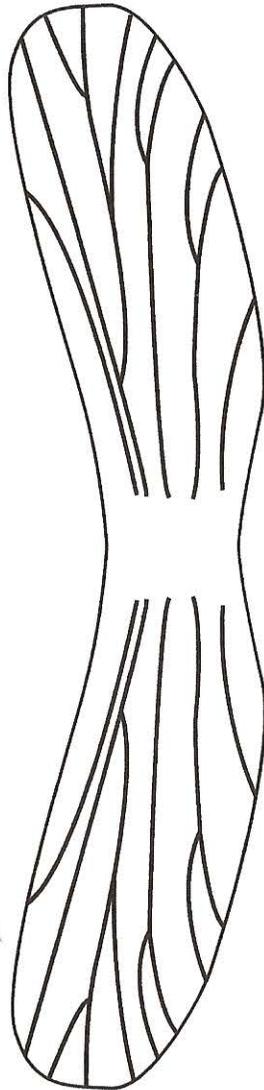


Aquatic Systems
Mosquito Education Program



A

Cut along outside edge of bolded lines for the mosquito body.

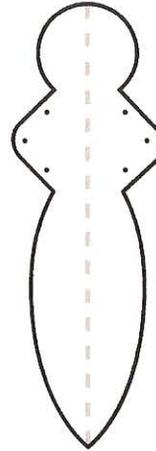


B

Cut along outside edge of bolded lines for the mosquito wings.

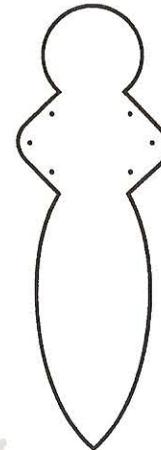
C

Fold body along dotted line.



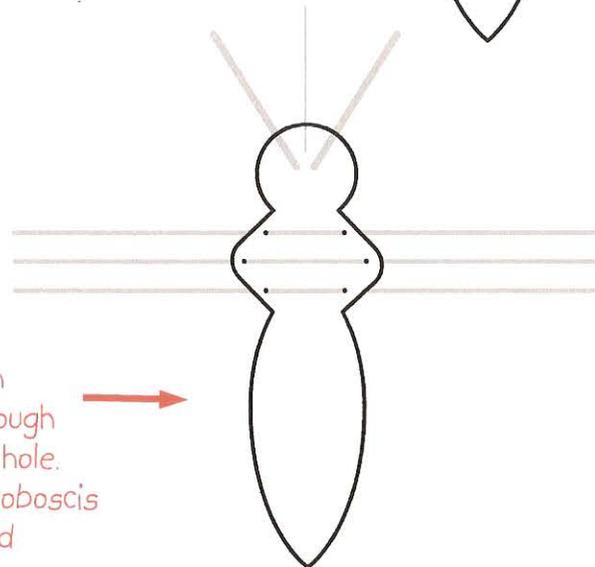
D

Punch out holes where the circles are marked on the body.



E

Carefully push pipe cleaners through and glue at each hole. Glue antenna and proboscis on top of head



F

Place Your mosquito body with inserted legs on top of template below. Bend legs to match the template.

