



**Supplies Provided:** 

Bat Template Paper Straw Plastic Pipette **Supplies Needed From Home:** 

Crayons or Markers Tape Scissors

1. Decorate your bat however you'd like using crayons, markers, or colored pencils.

2. Cut out your bat.

3. Turn your bat over. Cut off the bottom of a plastic pipette and attach the top to the back of a bat using tape.

4. Slip your straw into the pipette and you're ready to make your bats fly!

5. Blow a big burst of air into your straw and see how far your bat can fly. Check out ways to extend this activity below.



## <u>The Science</u>

Paper bats demonstrate how real rockets fly through the atmosphere. Drag is what scientists call the force of air getting in your bat's way. And thanks to gravity, your bat's weight pulls it back down to Earth. The lighter you make your bat (less paper, less tape) and the less drag it has, the farther it will go!

Fins help to stabilize a rocket's flight. The size and design of the fins on a rocket affect how well it can be controlled. You can adjust your bat's flight by adjusting its wings.

## **Tips & Ideas To Try**

--The harder you blow into the straw the more energy the air has and the further your bat will fly! --Incorporate math into your activity by measuring how far your bat can fly. You can even have bat flying races with your friends!

--What happens if you modify your bats wings by bending them different directions? How does affect the bat's flight.

--How does the angle of your straw before blowing affect your bats flight?

taken in part from <a href="https://www.buggyandbuddy.com/flying-bat-straw-rockets/">buggyandbuddy.com/flying-bat-straw-rockets/</a>