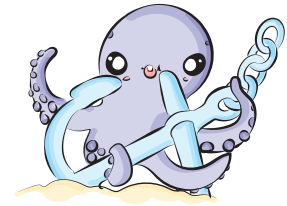


Lesson Anchor

Explore the
Phenomenon!



Design a paper airplane to fly far

Today you get to be an engineer! Design a paper airplane to fly as far as possible. Mark where it lands each time with your homemade flight cone. When you have your farthest flight M \measure the distance it flew using footsteps.

What you'll need:

- one or two pieces of paper
- tape or a paperclip



What you'll do:

1. Fold a paper airplane.
2. Throw your plane a few times, mark where it lands with your flight cone.
3. Measure your farthest throw by counting your steps (or use a measuring tape).



fold ...



... fold some more. Then, wallah! An airplane!





These students line up to throw their paper airplanes.

Record Your Results

Mark and measure the farthest flight of your paper airplane with your flight cone.



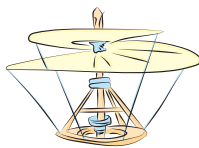
How far did your airplane fly?

Note: Students should measure and record the length of their farthest flight.

Start



(You can measure with a measuring tape, ruler or even using footsteps.)



Think,
Pair,
Share

What might affect how far your airplane can fly?

Note: Students should rely on their previous experiences and background knowledge to answer the question.

If at first you don't succeed—
try, try again!

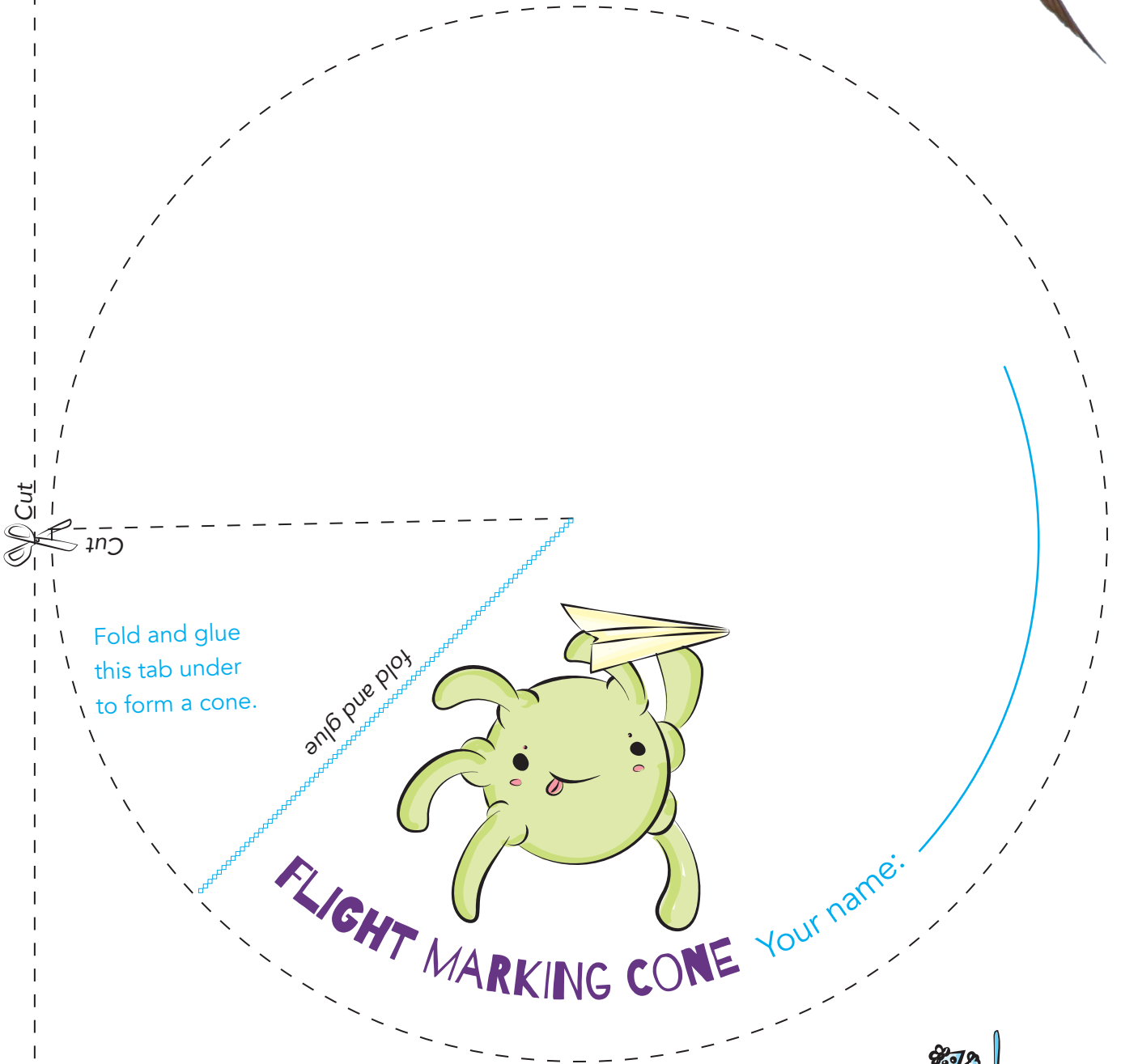
Yoh?

$\hat{=}(> . -) =$



Make your marking cone

Cut on the dotted lines and fold to make a cone. Use your cone to mark where your paper airplane lands.



Fold and glue
this tab
under
to form a cone.

fold and glue

FLIGHT MARKING CONE Your name: _____

Decorate your cone
so you can tell it
apart from others.

