

HOOP GLIDERS



SUPERNOVA
DALHOUSIE UNIVERSITY | HALIFAX, NOVA SCOTIA

**LEARN ABOUT BALANCE & RESISTANCE IN
RELATION TO FLIGHT**

MATERIALS

6-7

1/2 inch thick pieces of cardstock
1 straight straw
Scissors
Tape

30 MINS

PROCEDURE

Step 1

Cut two strips out of the cardstock, about 1 inch (2.5 cm) wide, with one being about 13 cm long and one being about 26 cm long.

Step 2

Create a circle with each strip of cardstock and secure it using tape.

Step 3

Tape the paper loops to the ends of the straw (ensure that the straw is lined up on the inside of the loops).

Step 4

Test out your hoop glider!

Throw it with the smaller circle facing forward.

**TRY MAKING THE STRAW A DIFFERENT SIZE,
CHANGING THE SIZE OF THE HOOPS OR ADDING A
THIRD HOOP. WHAT HAPPENS?**

PURPOSE & SCIENCE OUTCOMES

- The two sizes of hoops help to keep the straw balanced as it flies.
- The big hoop creates drag (or air resistance, the action of friction that slows something moving through air) which helps keep the straw level while the smaller hoop in at the front keeps your super hooper from turning off course.

ANY QUESTIONS? REACH OUT @SUPERNOVAATDAL