Name: _____

Class: _____Date: _____

Flight Paths

An activity of "Frozen in Flight".

Read "Frozen in Flight" (pages 14-15, *What's Up* August 2025). Now, let's explore flight!

1. Watch the following video to see how different bird wing shapes affect the way they fly.

Bird Wing Shapes - How Birds Fly
➢ https://youtu.be/cDN9qqoQZr8?si=ycY9HjmZa2Pjao0w (Biobush, 14 Aug, 2018)

2. Next, let's learn how to make paper planes that mimic two different bird flight styles! Pair up with a partner. Make these two paper planes by following the video instructions.

Plane A
EASY Bat Paper Airplane that Flaps!!! — How to Make AeroDactyl in 1 Minute
➢ https://youtu.be/Z3lulJHlLx0?si=eUcJkdpZHNqYhWFD
(Foldable Flight, 21 May 2025)

Plane B
Paper Airplanes that Fly Far - How to Make a Paper Airplane ...
➢ https://youtu.be/R8r30wO1Js8?si=E0AtgCZ5dpgbgtXu
(Ababeel Crafts, 19 June, 2021)

2. Test your planes! Take turns to throw your planes and record the data for each plane in the table below. Follow these guidelines:
   - Use the same throwing area/ distance for all tests.
   - Decide how to measure speed and distance e.g. a stopwatch, a measuring tape.
   - Throw each plane three times.
   - Record your fastest speed and best distance in the table.
   - Stay safe and don't aim at others; throw in a safe zone.

Plane Type	**Speed** (seconds)	**Distance** (metres)	**Stability** (smooth, wobbly?)	**Flies like ...** (e.g. bat, arrow)	**Our feelings as we watch it**
A					
B					

3. Draw what the flight paths for each of the planes looked like to you below.

Plane A

START END

Plane B

START END

4. Based on your observations, answer these questions.

a) Which plane design was better for longer distances? Why do you think it is so?

b) Which plane design was better for speed? What design features helped?

c) Which birds in nature might have similar wing shapes to your planes?

Plane A: _____ *Plane B:* _____

d) What did this activity teach you?