

Look Kool – Aerodynamics

ABC ME screening details: Wednesday 3 June 2020 at 11:20am

This episode can also be viewed on [ABC iView](#).

Key learning areas: Mathematics

Level: Levels 4 – 6

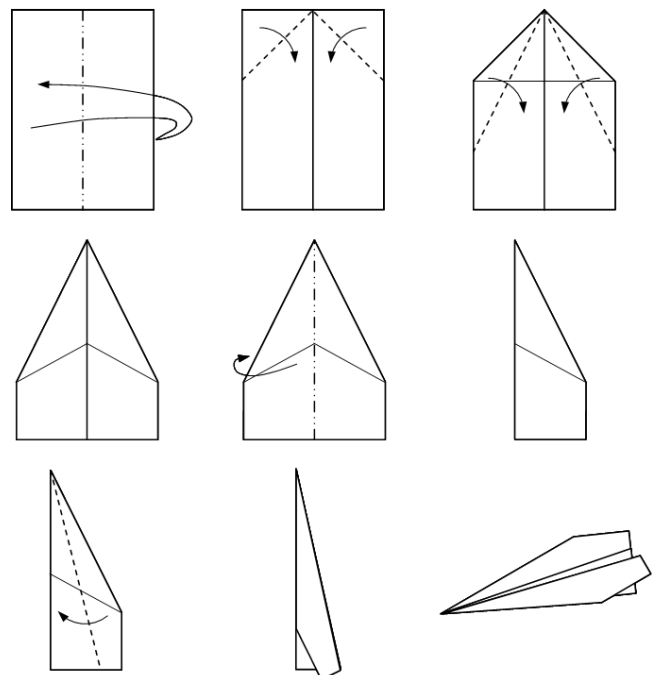
About: To find out why some shapes go through air better than others, the gang is going to make a rocket with an astronaut, put bicycle "test pilots" to the test, and meet a rocket scientist who swims better than he walks.

Before the episode

1. How do paper planes work? Write and draw to explain what helps them to fly.

After the episode

1. Construct your own paper plane. You may want to these instructions for a basic dart or design your own.



2. How far can your plane fly? Use a tape measure to check.

After the episode

Hold your own paper plane flying competition! Which paper plane will fly the longest distance?

3. Design and construct three different paper aeroplanes.
4. Make a prediction. Which plane design do you think will fly the furthest and why? Draw and write to explain your reasoning.



5. Test your planes. Measure and record the distances flown by each plane.

	Test flight 1	Test flight 2	Test flight 3	Total distance
Design 1				
Design 2				
Design 3				

6. Was your prediction correct?

Follow-up activity: Learn how to create exciting paper planes at <https://blog.doublehelix.csiro.au/paper-plane-designs/>

Teacher notes

This resource contains self-directed learning activities that students can complete while learning at home or in the classroom. The activities align with the Victorian Curriculum F-10 and can be modified to meet the needs of your students. Teachers could collect student work for feedback and assessment.

Learning intentions

- To measure and compare distances

Victorian Curriculum content descriptions

	Level 4	Level 5	Level 6
Measurement and Geometry	Use scaled instruments to measure and compare lengths, masses, capacities and temperatures (VCMMG165)	Choose appropriate units of measurement for length, area, volume, capacity and mass (VCMMG195)	Connect decimal representations to the metric system (VCMMG222)

Victorian Curriculum achievement standards

	Level 4	Level 5	Level 6
Mathematics	Students use scaled instruments to measure length, angle, area, mass, capacity and temperature of shapes and objects.	Students use appropriate units of measurement for length, area, volume, capacity and mass.	Students relate decimals to the metric system and choose appropriate units of measurement to perform a calculation.

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