



Fight for Flight: What is the best design for a loopy aeroplane?

From Allmond, S., Wells, J., & Makar, K. (2010). *Thinking through mathematics: Engaging students with inquiry-based learning. Book 3, Ages 10-13*. Education Services Australia.

Possible alignment of inquiry with Australian Curriculum: Mathematics:

Content Descriptors	Proficiencies
<p>Yr 7</p> <p>ACMNA154</p> <p>ACMNA156</p> <p>ACMSP170</p> <p>ACMSP171</p> <p>ACMSP172</p>	<p>Understanding</p> <ul style="list-style-type: none">• Data can be summarised and interpreted by calculating measures of centre and spread• conventions of rounding <p>Fluency</p> <ul style="list-style-type: none">• Calculating mean and median• Rounding decimals to a given number of places <p>Problem Solving</p> <ul style="list-style-type: none">• Formulating and solving authentic problems <p>Reasoning</p> <ul style="list-style-type: none">• Posing appropriate questions for data investigations• Interpreting data sets
<p>Yr5</p> <p>Adjust so consideration of one variable only to produce a greater number of data points for plotting and comparison of plots (no more than 3)</p> <p>ACMSP118</p> <p>ACMSP119</p> <p>ACMSP120</p> <p>ACMNA105</p>	