**Fulford Paper Airplane Challenge 2021**

**Who can make the paper airplane that travels the furthest?**

**What you will need:**

* A tape measure/ Ruler
* 4 pieces of Paper ( A4 if possible)

Step 1: Watch the video link

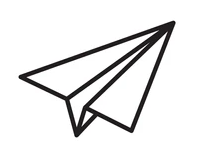
<https://m.youtube.com/watch?v=3dbmsdprJoA>

Step 2: Make your first plane

Step 3: Throw it and measure how far it travels, repeat 2 more times and calculate a mean

Step 4: Repeat with the different designs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Distance Travelled (cm)** | | | |
| **Type of airplane** | **Attempt 1** | **Attempt 2** | **Attempt 3** | **Mean** |
| **Arrowhead** |  |  |  |  |
| **F15** |  |  |  |  |
| **Dagger** |  |  |  |  |
| **Own design** |  |  |  |  |

1. What is the independent variable?
2. What is the dependent variable?
3. What are the control variables?
4. Did you have any anomalous results?
5. What is the range of your F15 results?
6. Which design was the best one, can you explain why?

**To win the competition** - please email [stablerk@fulford.york.sch.uk](mailto:stablerk@fulford.york.sch.uk) (You must say your name, science teacher, form, distance travelled by the plane, the design used, plus photographic evidence)