

Rocket Launch Project

To wrap up our discussion of motion, we will be building paper rockets to be launched by pressurized air. The general instructions for building a paper rocket [can be found here](#).

Your Task

Design and construct a rocket that travels the farthest horizontal distance

Controlled Variables

There are two important variables that will have a significant impact on the range so to do the best comparison between rockets, we will be keeping these variables constant for all trials

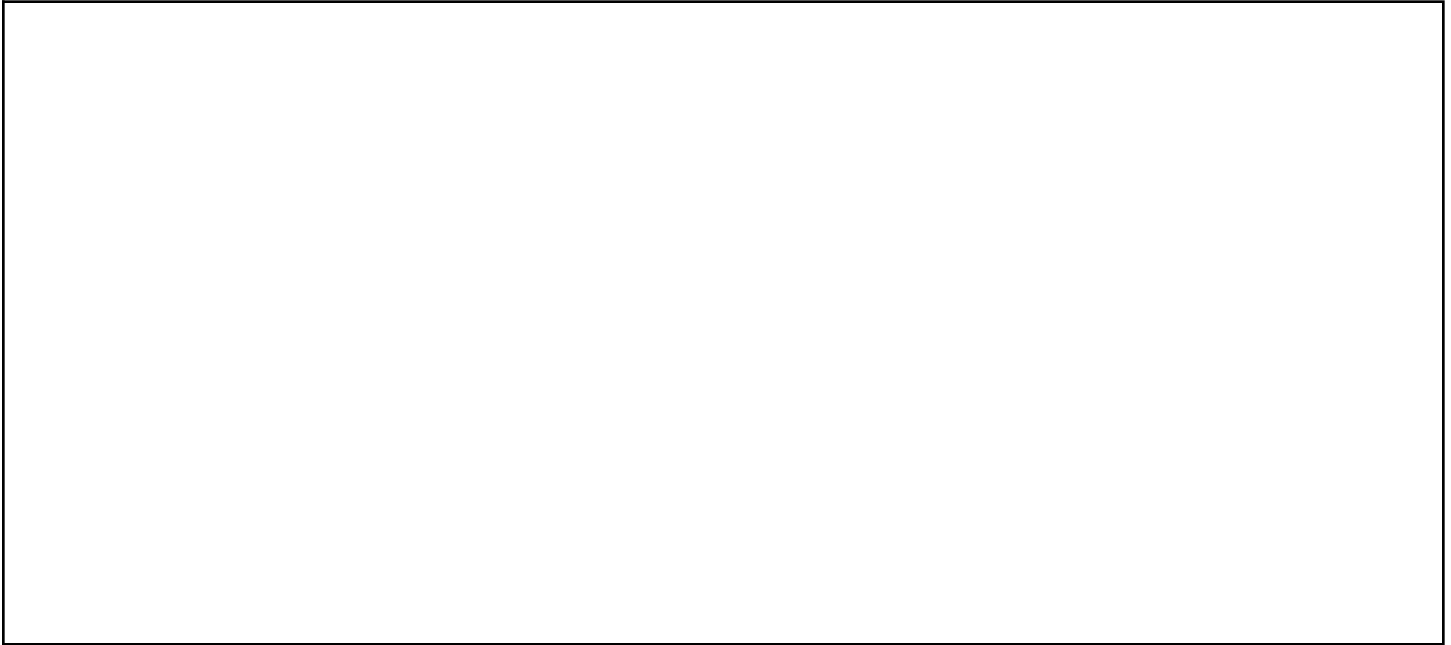
Air Pressure	
Launch Angle	

Independent Variables

An independent variable is something that the experimenter changes to test for an effect. Besides the controlled variables described above, there are several other things that can be changed about your rocket design. **Brainstorm at least three different design features that you could change about your rocket.**

The Design

In the space below, sketch at least two different designs:



Collecting Data

In the table below collect data about your launch trials including any notes that might be helpful when evaluating your design and preparing for a redesign. This is Quantitative **and** Qualitative!

Rocket Description	Launch Distance	Notes

Final Design

In the space below, sketch or add a photo of the ultimate rocket based on your experimentation.

Include dimensions in your image



Final Launch

Launch Distance	
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Notes about the Final Launch