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About Rockets

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## START YOUR JOURNEY

### Welcome to Rocket Research 103 "Kind of a Drag"

Now that you've completed Rocket Research 101 and 102, you should have a good basic rocket design. But there is another factor you must consider. In order to maximize its performance, you want the rocket to have as little wind resistance, or "drag," as possible.

*Why? Write down two advantages of having a rocket with low air drag.*

All set? Check your answers [here](#).

The shape of an object plays a key role in how much drag it experiences while moving through the air (or any fluid, for that matter). Check this page for a good review of **drag and the effects of different shapes on drag**.

Let's conduct some experiments to better understand drag.



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Any comments, concerns, or questions should be addressed to:  
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### Two advantages of having a rocket with low air drag are:

1. Your rocket achieves faster speeds and higher altitudes.
2. Fuel consumption decreases. In the case of your rocket, all the fuel (water) will be used anyway. But with low air drag, the fuel will be used more efficiently (less water per meter of altitude).