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About Rockets

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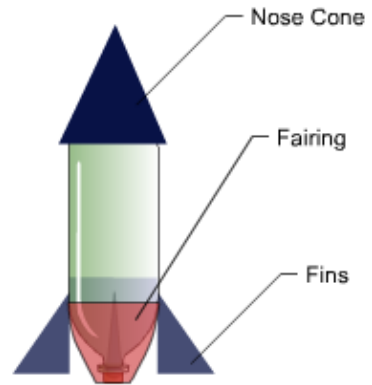
START YOUR JOURNEY

Welcome to Rocket Research 103

"Kind of a Drag" - WATER ROCKET DRAG

There are three features of a water rocket that affect drag:

1. The nose cone.
2. The fairing (a 'skirt' that goes around the nozzle).
3. The fins.



Use the simulator to experiment with the drag effects of each feature.

1. The nose cone.

To experiment with drag effects of the nose cone, try these options:
a) no nose cone.
b) rounded nose cone.

Keep all other settings the same (i.e., the amount of water, the amount of pressure, the lift-off weight, the type and number of fins, and the fairing style).
[Simulator]

Why should you hold other settings constant while trying different nose cones?
Were you correct?

RESULTS: Which shape caused the rocket to reach the highest altitude?



- a) Rounded nose cone.
- b) No nose cone.

Let's continue.

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Any comments, concerns, or questions should be addressed to:
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