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START YOUR JOURNEY

STUDENT PRE-ASSESSMENT: LAUNCHING A BOTTLE ROCKET

1. Do I have to use water? Why can't I just use pressurized air?
 - Using just pressurized air gives too much thrust.
 - Using 2 L of water gives the best results.
 - Air is less dense than water so you won't reach as high an altitude.
2. Is more water better?
 - Always.
 - Up to a certain level.
3. How can I modify the design of the rocket to increase the duration of the flight?
 - Use no fins.
 - Remove the nose cone.
 - Locate the fins near the top of the rocket.
 - Reduce drag.
4. What effect will the wind have on the way I launch the rocket?
 - The launch angle will be affected.
 - There will be no change.
 - The amount of water should be adjusted.
5. How will the wind affect the rocket after it is launched?
 - The wind will help the launch achieve a higher altitude.
 - The rocket may be blown off course.
6. How can I modify the design of the rocket to increase its chances of making a field goal or reaching a goal?
 - By decreasing drag and increasing stability.
 - By increasing drag and decreasing thrust.

[Answers](#)



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