

# it's Storytime

# CHALLENGE

## Bernoulli's Pressure Challenge

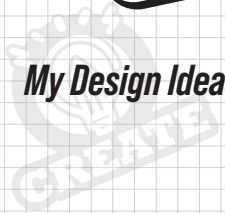
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### REUSE Toolbox

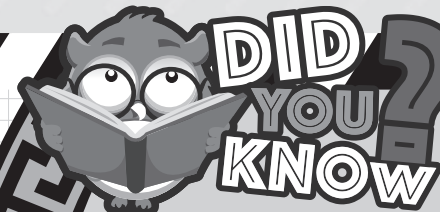
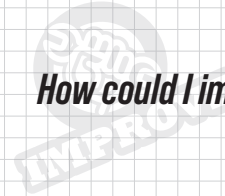
What other materials could you find and use?

- Strip of Paper
- Round Cheese Puff
- String
- Ping Pong Ball
- Thin Garbage Bag
- Clean Funnel
- Bendable Straw
- Aluminum Cans
- Hair Dryer

My Design Ideas:



How could I improve on my design for next time?



Bernoulli's principle explains the reason why airplanes are able to fly.

Between 1725 and 1749 alone, Daniel Bernoulli received 10 prizes from the Paris Academy of Sciences.

### POWER UP WORDS

- Aviation
- Flight Path
- Cargo

### CAREER LIFTOFF

- › Pilot
- › Air Traffic Controller
- › Aerospace Engineer
- › Avionics Technicians

#### Learning Standards: 3rd grade; Engineering Design

- 3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
- 3-5-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.
- 3-5-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

