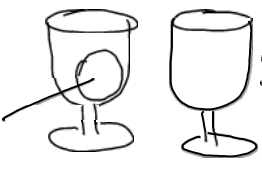


Oct 22

Bernoulli Revisited

Challenge — To get the ball from one glass to another without touching the ball or the glasses


Ping Pong Ball



The diagram shows two identical glasses on stands. A ping pong ball is positioned in the left glass. A line points from the text 'Ping Pong Ball' to the ball.

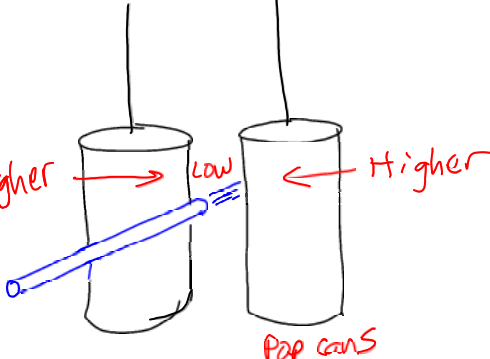
Bernoulli's Principle

Fast moving fluids have Lower Pressure.



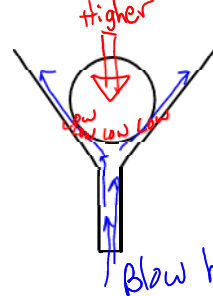
The diagram shows a cross-section of a tent. On the left, a horizontal line with three parallel lines below it represents wind blowing towards the tent. Red arrows point downwards from the top of the tent, labeled 'Higher'. Red arrows point upwards from the bottom of the tent, labeled 'Low'. The tent is shown as collapsed.

The tent collapsed...



The diagram shows two cylindrical pop cans. A blue tube is positioned between them, blowing air from left to right. Red arrows labeled 'Higher' point towards the narrow gap between the cans. A red arrow labeled 'Low' points away from the gap. The text 'Pop cans' is written below the cans.

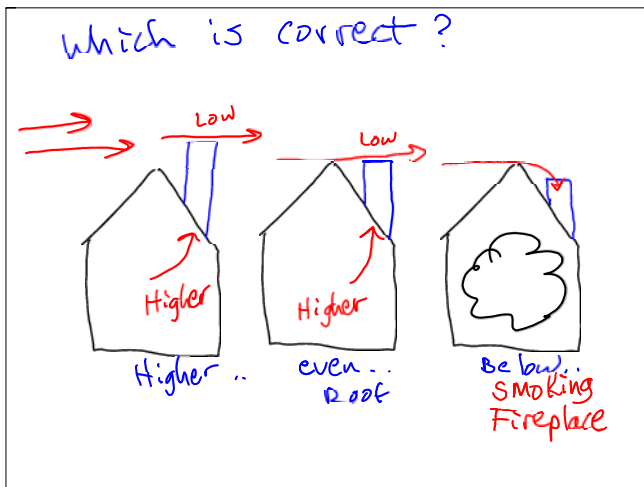
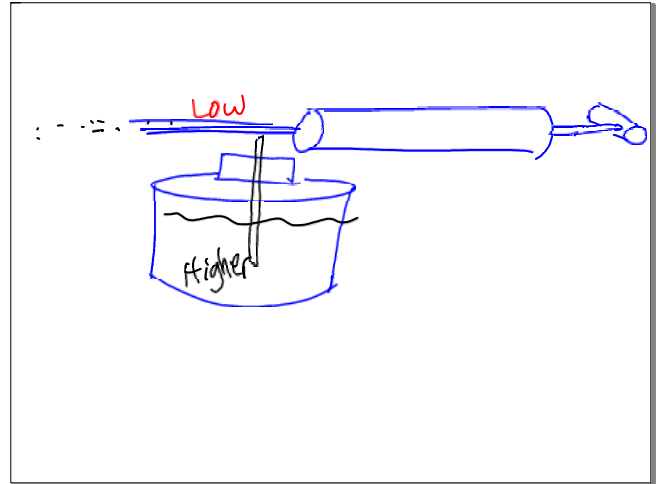
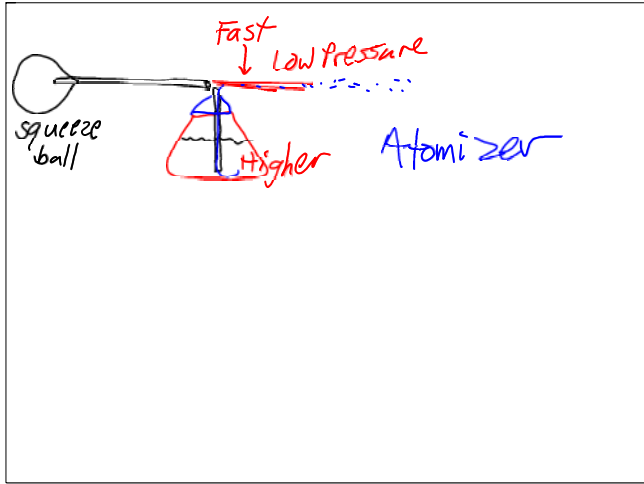
Funnel and Ping Pong Ball



The diagram shows a funnel with a ping pong ball in its neck. Blue arrows point upwards from the narrow neck of the funnel, labeled 'Blow hard'. Red arrows point downwards from the ball, labeled 'Higher'. Red arrows point upwards from the sides of the funnel, labeled 'Low'. The text 'The ball will not come out, even if upside down (once blowing)' is written to the right.

The ball will not come out, even if upside down (once blowing)

Blow hard



Tornado Talk

A hand-drawn diagram of a house with wind blowing from the right. Red arrows labeled "Low" point from right to left above the house. Inside the house, red arrows point upwards and are labeled "Higher inside". To the right of the house, a tornado is depicted with the text "High winds near tornado" written next to it.

House expands, roof could come off, walls weakened, could fall, etc.

If we let some internal pressure OUT, then the roof may stay on.

Do this by opening windows to let pressure out.