Pressure Around Us

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UBC PHYSICS AND COMPUTER SCIENCE

What is pressure?

Pressure is how much something pushes at a given point on a surface.

Changing Pressure Activity

Decreasing Volume

https://www.youtube.com/watch?v=UOwH18YdN7s

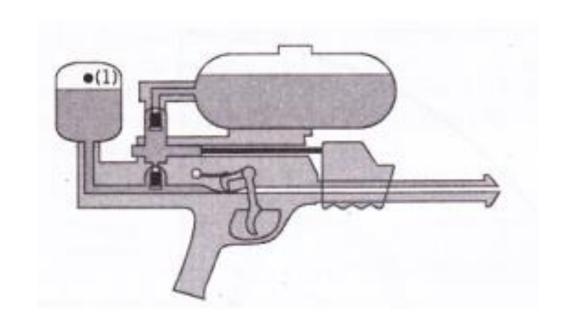


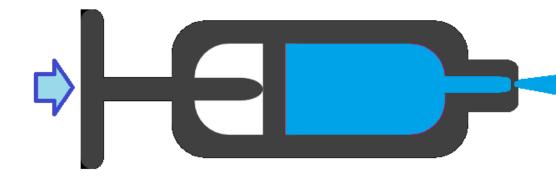
Water Guns





Water Guns





Increasing Air Particles

https://www.youtube.com/watch?v=OTpsR-d_sOc&t=12s



Adding Heat

https://www.youtube.com/watch?v=4rPMlkN5fR4&t=27s



DEMONSTRATIONS

Wood Vs. Newspaper

Poking Bottles

Upside-down Flask

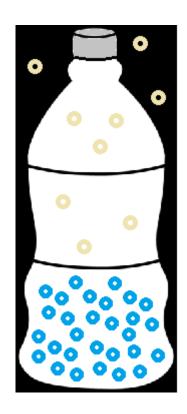
DEMONSTRATIONS

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Poking Bottles

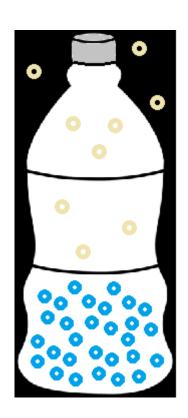
Upside-down Flask

Poked Bottle

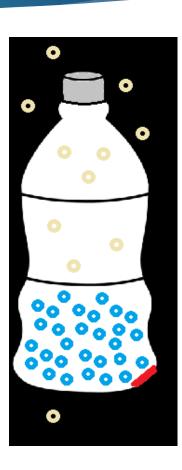


Poke a Hole

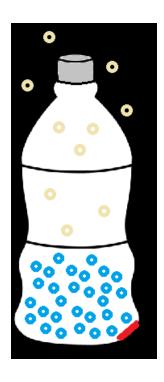
Poked Bottle



Poke a Hole

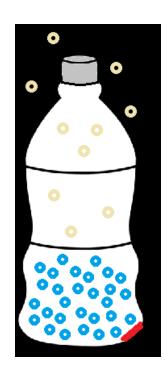


Squeeze Bottle

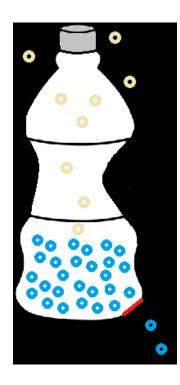


Squeeze the Bottle

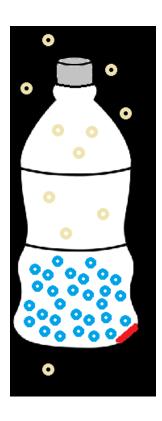
Squeeze Bottle



Squeeze the bottle

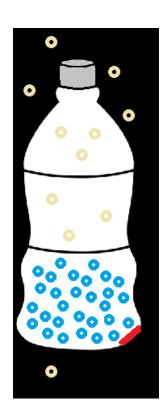


Open Lid

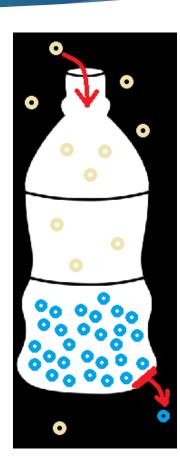


Remove the cap

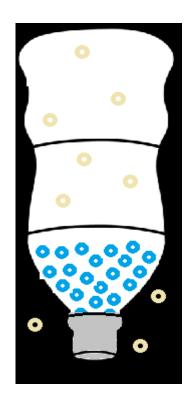
Open Lid



Remove the cap

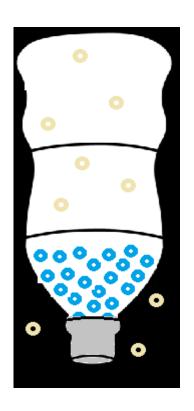


Larger Holes

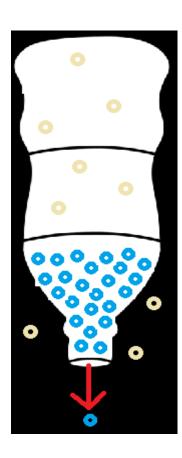


Remove Cap

Larger Holes



Remove Cap



DEMONSTRATIONS

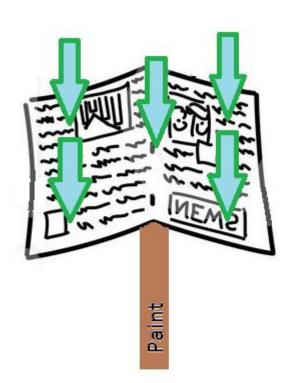
Wood Vs. Newspaper

Poking Bottles

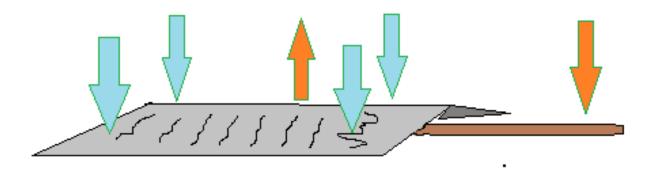
Upside-down Flask

Atmospheric Pressure!

Atmospheric Pressure



Atmospheric Pressure



DEMONSTRATIONS

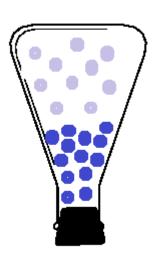
Wood Vs. Newspaper

Poking Bottles

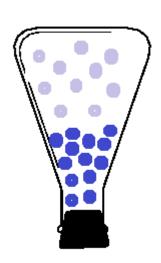
Upside-down Flask

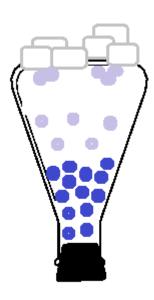
Vapor Pressure

Higher Pressure

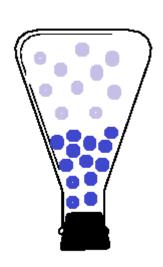


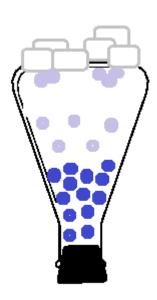
Lower Pressure

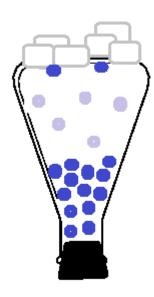




Lower Pressure







Application: Pressure Cooking

