

Flight with a Twist

S Science

There are only two kinds of forces, either push or pull. Forces move objects. Forces are always found in pairs called couples. The Bernoulli Principle states that moving liquids have lower pressures, this causes flight in the air.

T Technology

We have applied the Bernoulli Principle of fluid pressure to the wing and flight for both helicopters and fixed wing aircraft. Using a curved surface increases the effects of pressure differences.

E Engineering

Modifying wings and helicopter rotors help engineers design better, safer, and more efficient flight surfaces. As you modify the paper wings to achieve your goals, you're acting like an engineer.

M Mathematics

Measure the rotor's surface area. Graph this versus flight time for a given height you drop the helicopter. Calculate speed of the helicopter as it falls. Graph rotor length versus flight time.

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