

Power point Example

NEUROHEADWAY

Neuroscience Into Education



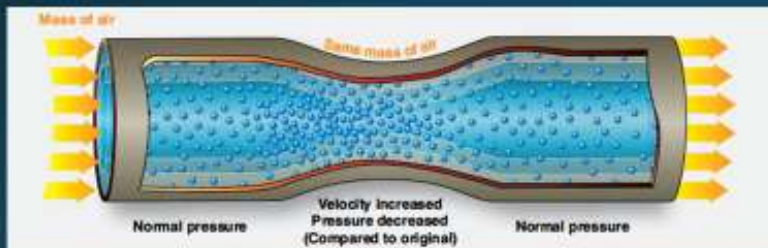
Newton's laws of motion

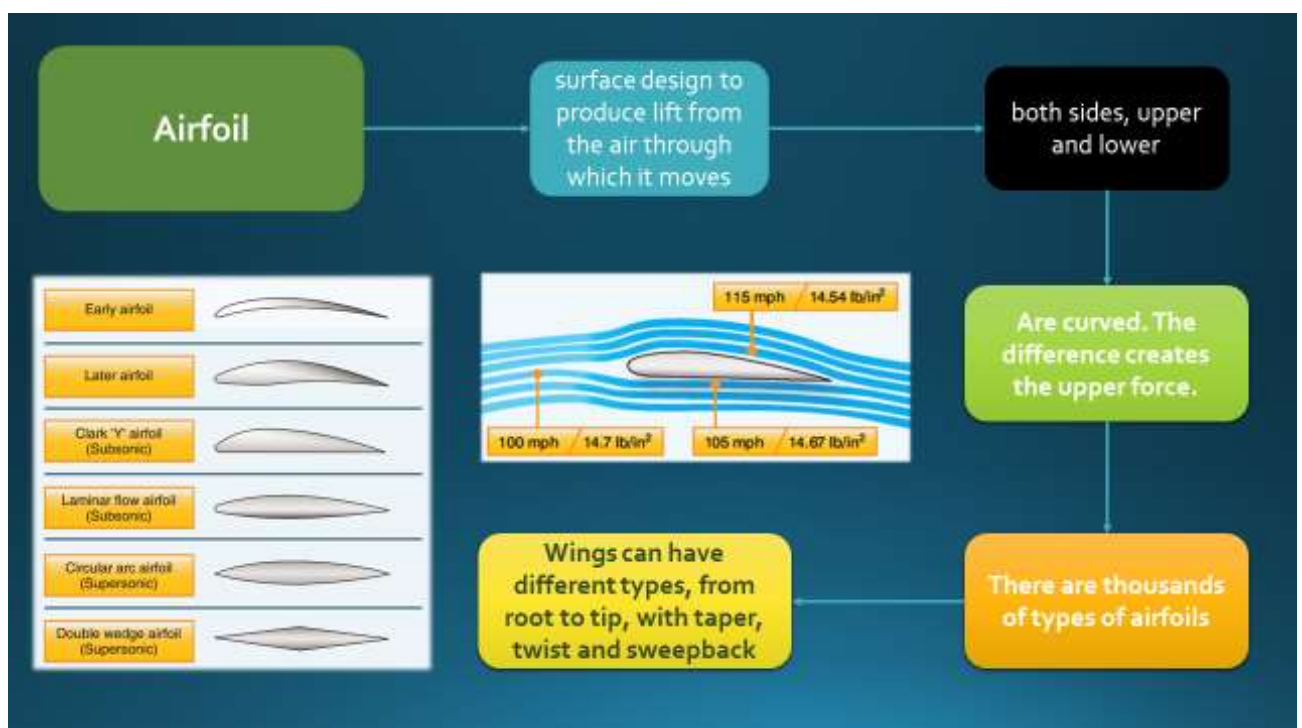
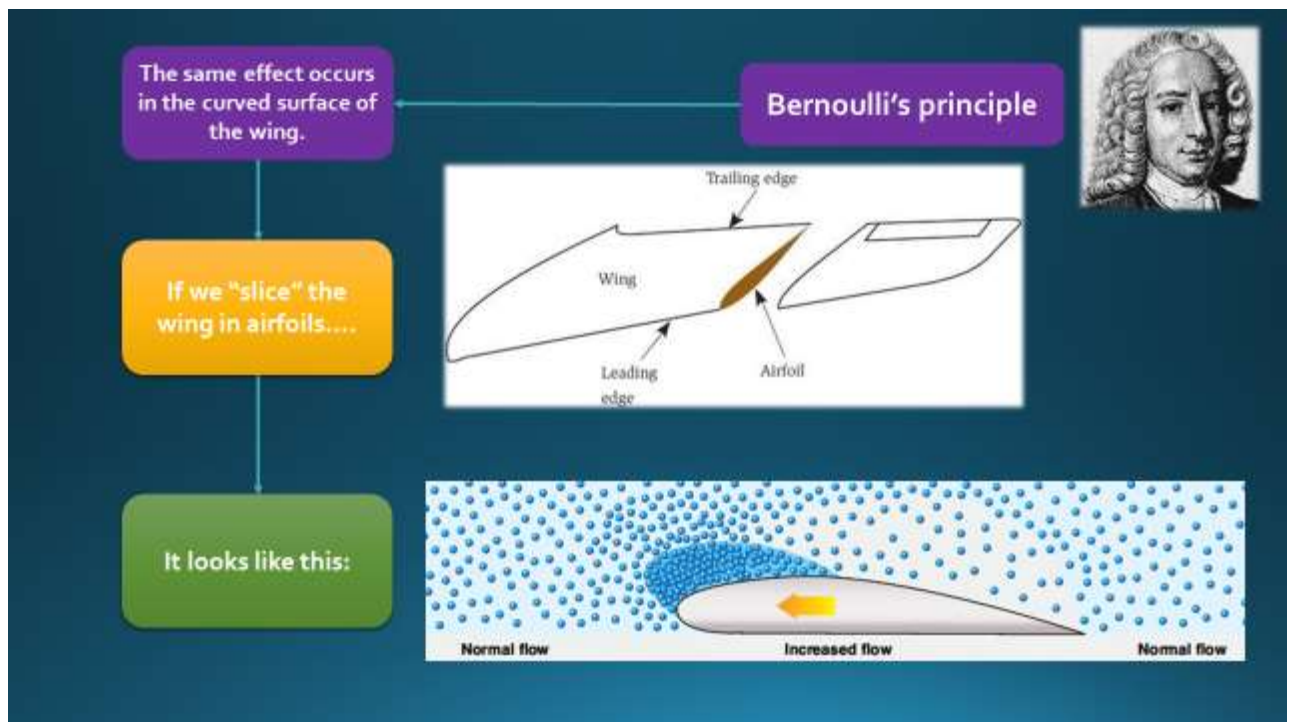
Apply to the theory of flight



Bernoulli's principle

If a mass of air flowing through a tube and reaches a narrowing, the velocity increases and the pressure decreases





Shape of the airfoil

Relative airstream:
air current relative to airfoil

Chord line: imaginary straight line that connects the leading edge and the trailing edge

Angle of attack (AOA): angle between the relative airstream and the chord line

Individual section properties differ from the ones of the entire wing

The aerodynamic properties of the wing are determined by

Action of each section along the span.



Center of pressure:
point of application of all aerodynamical forces

Lift: is the force due to the relative movement of the airfoil with the air

Resultant lift: the resultant (sum) of lift forces around the airfoil

Drag: is the force that exerts a braking action on the airfoil