
Principles of Flight

Aviation Instructor's Lesson Plan

OBJECTIVE This lesson will develop the student's understanding of basic aerodynamics and the elementary physics of flight.

- ELEMENTS**
- Airfoil design characteristics
 - Airplane stability and controllability
 - Turning tendency (torque effect)
 - Load factors in airplane design
 - Wingtip vortices and precautions to be taken

REFERENCE ***The Flight Instructor's Kit***

- Area of Operation 2, Task C: Principles of Flight

COMPLETION STANDARDS The student should be able to demonstrate knowledge of aircraft design characteristics, fundamental forces of flight, load factor, turning tendencies, and aircraft stability,