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# Aircraft Flight Instruments and Navigation Equipment

## Aviation Instructor's Lesson Plan

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**OBJECTIVE** This lesson will introduce the student to each of the aircraft's instrument systems and their operating characteristics.

**ELEMENTS**

**Flight Instruments**

- Pitot-static.
- Altimeter.
- Airspeed indicator.
- Vertical speed indicator.
- Attitude indicator.
- Horizontal situation indicator.
- Magnetic compass.
- Turn-and-slip indicator/turn coordinator.
- Heading indicator.
- Electrical systems.
- Vacuum systems.
- Electronic flight instrument display.

**Navigation**

- VOR.
- DME.
- ILS.
- Marker beacon receiver/indicators.
- Transponder/altitude encoding.
- ADF.
- GPS.
- FMS.

**REFERENCE**

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

- Area of Operation 2, Task E: Airplane Systems and Flight Instruments
- Area of Operation 5, Task C: Navigational Facilities and Instruments
- Area of Operation 5, Task D: Global Positioning Systems

**COMPLETION  
STANDARDS**

The student should be able to demonstrate adequate knowledge of the applicable aircraft flight instruments and navigation systems. The student should also be able to determine the operational status and limitations of navigational aids through the use of NOTAMs and other aeronautical publications.