

Flight Transportation

Academic Representative



Technology Education Concepts

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Description

The DEPCO Flight Transportation curriculum uses specifically designed yoke and computer-simulated flight instruments to give a realistic experience. By using this equipment and software, students learn primary flight controls, such as the yoke and throttle. Students also learn difficult flight tasks, including turning without changing altitude, making a successful two-minute turn, and following a flight path. In addition to reading and interpreting an altimeter, heading indicator, airspeed indicator, turn coordinator, and vertical speed indicator, students learn about radio navigational tools and global positioning system (GPS) navigation.

Skills

- Execute successful takeoffs and landings
- Use throttle and control surfaces correctly
- Demonstrate navigational skills
- Achieve and maintain designated altitudes and headings
- Adjust course and altitude, based on instrument readings

Knowledge

- Basic aerodynamic concepts
- Time, distance, and fuel consumption
- Basic airport procedures for light aircraft
- Interpretation of aviation maps

Activities

- Activity 1 - Introduction
- Activity 2 - Pre-Flight and First Flight
- Activity 3 - Turns
- Activity 4 - Headings and Angle of Attack
- Activity 5 - Taking Off
- Activity 6 - The Landing
- Activity 7 - Flying a Pattern
- Activity 8 - Winds, Stalls, and Spins
- Activity 9 - Problem Landing
- Activity 10 - Post-Test and Wrap-Up
- Activity 11 - Bonus Activities
- Activity 12 - Challenge
- Activity 13 - Open-Ended Challenge
- Activity 14 - Careers
- Activity 15 - Internet

Standards

Math/Measure Problem Solving Science Reading

Module Includes:

Student Workbook, Instructor's Manual, Installation CD, Flight Simulation Software, Flight Yoke, Headphones, Rudder Pedals

Requirements

Module requires a computer workstation.

A USB port is required to interface flight yoke to computer.

DVD Player to install Flight Simulator Software.