

TAKEOFFTEST™

Lesson Directions Overview

Equipment List

- 1 Airplane Launcher
- 1 Ream Paper
- 1 Measuring Tape
- Paper Clips
- Assorted Rubber Bands

Learning Objectives

1. Students will demonstrate how launch angle and force affect the distance traveled by a paper airplane.
2. Students will use the engineering design process to develop paper airplanes that fly the farthest distance possible using an airplane launcher.

Grade Levels: Elementary and Up

Vocabulary Covered

- Angle
- Force
- Gravity
- Launch Angle
- Lift
- Thrust
- Weight

NGSS Topics Addressed

- Forces & Interactions
- Energy
- Engineering Design

CCMS Topics Addressed

- Data & Measurement
- Geometry