

Powered Flight

Aircraft Specifications Sheet

Assignment

Design and produce a one-sheet technical document that reports data for the powered aircraft you have constructed in class. Use any tools and means necessary to gather the required information!



Resources

Time	10 class periods
People	Same that worked on the Powered Flight activity
Energy	Electrical for test calculations
Information	Calculations for maximum speed, indirect measurement techniques, direct measurement techniques, electrical power calculation, how aircraft are named
Money	None
Tools	Computer, digital camera, printer
Materials	8-1/2" x 11" paper
Space	All information must be reported on one side of one 8-1/2" x 11" sheet of paper

Required Information

The following must be included in the spec sheet

1. Designers names, aircraft company, model number and nickname (research how planes are named)
2. At least one photograph of the actual constructed aircraft.
3. At least two paragraphs describing the aircraft and any special features.
4. The following specifications:
 - Maximum speed in feet per second
 - Ceiling (max height with the 5 foot power pole and a 6' wire)
 - Dimensions for: wing span, length, height
 - Weight
 - Minimum power (watts) required for sustained flight (one lap around pole without touching floor)