

Abstract

The question for this experiment was, "Does high or low pitch produce more thrust/lift?" In my experiment, I constructed and tested five propellers with different pitches. They ranged from no pitch to 3.2cm pitch. The answer to my question is: the greater the pitch, the greater the thrust/lift produced, but only up until the propeller pitch gets close to a 90 degree angle. My hypothesis was if I test propellers with different pitches then I will find that the greater the pitch, the greater the thrust/lift. This hypothesis was proven to be inconclusive. In my results, the 2.5cm pitch propeller produced the most thrust/lift. The 3.2cm pitch propeller produced the least thrust/lift, except for the zero pitch propeller which produced absolutely no thrust/lift. Overall, I believe this experiment to be a success. This is because little variation in my test results allowed me to draw accurate conclusions from my data.