

Michaelmas 2001

The Physics of Paper Helicopters

Introduction

In my physics coursework I intend to study "paper helicopters". A paper helicopter is a piece of plain A4 paper that has been folded, so that when dropped, it spins whilst falling to the ground. Below is a picture of one of the helicopters used.

The top half of the piece of paper is cut down the middle, creating the two wings, and then the rest of the piece of paper is folded up to make the body of the helicopter.

The reason for this choice was that there are many variables that I can change on the helicopter. I intend to have different experiments, with the wing size, mass of helicopter and the height from which it is dropped all being varied. I have done some initial measurements, and found that when dropped down some stairs of height 6m, the helicopter takes about 5 seconds, which is long enough to measure relatively accurately. Although I originally intended to measure the revolutions per second of the helicopter, my initial experiment showed that it would be too difficult to do accurately.

The basic physics of the paper helicopter

As the helicopter falls through the air, it spins. The basic explanation for this is related to the position of the wings during its flight. As the helicopter falls downward, two forces act on it: its weight and the resistive force. The resistive force is provided in the form of air resistance, almost entirely by the wings.

The wings will be pulled upwards as almost all of the air resistance is acting on them. As paper (especially normal A4) is a very flexible substance, the wings bend up. So, in flight, the wings will take a curved shape, with the parts of the wings further from the body bending up more.

When falling, the air will be flowing past the wings, and will be deflected by them. Because the wings are deflecting the air, they are therefore exerting a force on the air. Newton's third law states that every force has an equal and opposite force acting as a reaction in the opposite direction. From this we can deduce that the air exerts a force on the wings:

There will obviously be a horizontal component to the forces on the wings. Looking at these horizontal forces from the point of view of the above diagram, they will be acting towards the body of the helicopter. Below is a diagram showing the horizontal components of these forces acting on the wings, from above the helicopter.

Because there are forces acting on different sides of the helicopter, and in opposite directions, the helicopter will spin (anti-clockwise in this diagram).

Method

To take my readings I will be dropping the paper helicopters down a flight of stairs, and measuring the time taken to fall to the bottom. To improve accuracy, I will take each reading three times and take an average. As one of the variables that I will be measuring is the height from which the helicopter is dropped, I will set up a tape measure, and drop the helicopter from intervals of 1 meter. For varying the mass of the helicopter I intend to attach paperclips to the body of the helicopter.

To change the size of the wings, I will cut different sized pieces of paper from the wings, and reattach them to the body, so the mass of the helicopter will stay constant.

There are no risks in my experiment.

Experiments

Varying the height

In this experiment I will vary the height from which the helicopter is dropped. The aim of this experiment is to find out how quickly the helicopter achieves its terminal velocity. This happens when the weight of the helicopter balances the air resistance. If the terminal velocity is reached almost immediately, then the graph of time to fall against height will be a straight line and the graph of velocity against time taken will be a horizontal straight line. I will use the same helicopter throughout the experiment.

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