

## Carroll Senior High School - Paper Air Car Project

This project is not optional and will be counted as a test grade in the second six weeks. There is no substitute for building and demonstrating the car. The car will be graded primarily on the quality of the car's construction and performance.

For a grade of 70, the car must hold together and run a net distance of 2 meters. Net distance = gross distance - distance from a straight center line. For every extra meter achieved, the grade will increase by 4 points up to a maximum of 94 points for performance. You will get 3 trials and your distance will be the best of the trials.

Three points will be awarded for outstanding construction and three more points can be earned for a detailed list and description of all energy conversions involved in the performance of the Air Car. If you (and your car) earn all of the available points you will receive a grade of 100 for the project.

We will demonstrate the cars on 11/2 and 11/3 in class, but the cars are to be constructed outside of class.

**The only allowable construction materials** are those listed in the instructions. You must clearly write your name on the larger wheels when you finish construction of your car...a car with no name cannot be allowed to perform. Once the car has run, it becomes the property of your teacher.

We will provide you with one set of materials, but if you need more (due to loss, extra car construction, breakage, or just ruining of the materials) you will need to provide them yourself. Good Luck and have fun!