



## Aerodynamics

### The “Wright” Flight Challenge

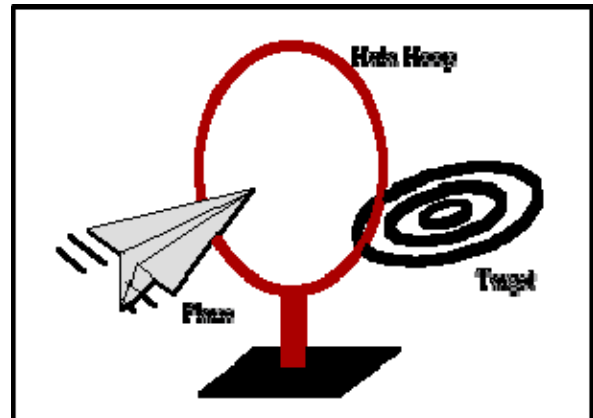
#### Description:

The objective is to have a two-person team construct a paper airplane out of the paper provided that will pass through a hoop and land as close as possible to the center of a target.

#### Number of Participants: 2

Approximate Time: 5-10 minutes per team

#### The Competition:



Material: Each team will be furnished with two pieces of standard 8 ½ X 11” (21.5 cm X 28 cm) white copier paper. Each team will also have the option of using 5 cm of tape and a pair of scissors. A standard “Hula Hoop” with a diameter of approximately 84 cm on a stand and a target will also be used.

1. Teams will be given up to 5 minutes to construct their paper airplane. (NO PAPER WADS OR DARTS WILL BE ALLOWED). Planes flown in competition must be made on site, during the 5 minutes using only the materials provided
2. Teams will launch their planes by hand from a standing position behind a clearly marked line through a hoop at a specific target, on the floor, more than 4 meters but less than 12 meters distant. A maximum of two launches are allowed per team. The team may modify their plane between flights. The hoop will be placed anywhere between 3-6 meters from the launch line...the target will be placed beyond the hoop.
3. Teams must launch their paper airplane to go through the hoop and land as close to the center target as possible. Only those airplanes that pass through the hoop will be measured for distance.

#### Scoring:

1. After the first flight, the distance will be measured from the center of the target to the nose of the airplane where it landed. Identical measurement of distance will be taken for the second flight. The average of the two flight distances from the center of the target will become the team’s official score.
2. The lowest official team score, signifying the closest to the target, will be the winner. In case of a tie, the best single flight will break the tie.
3. Judges have the final say on all rulings.