

COME FLY WITH ME

Description: The student(s) will construct a paper airplane, on site, that will perform specified maneuvers.

Number of students 1 or 2

Total time 45 minutes.

THE PAPER AIRPLANE:

1. During the current Olympiad year the student(s) will design, construct and test a paper airplane that will perform a maneuver or set of maneuvers
2. Any type of paper with dimensions not to exceed 18 inches in either direction may be used. Manila folders, 4 x 6 filing cards and other similar materials may be used. The stiffness of the material may not exceed that of a manila folder.
3. The maneuver(s) to be performed will be specified prior at the start of the Olympiad year.

THE FLIGHT AREA:

The area for the current year will be L shaped. The area may be within a building with corridors that intersect at right angles. An alternative could be an L shaped area laid out on a gym, or similar, floor. This area would have the lanes (corridors) 3 meters wide. The corridor/lane where the plane will be launched will be at least 5 meters in length; the intersecting corridor/lane will be at least 8 meters in length. A launching line will be placed in the launching corridor/lane 3 meters from the corner of the intersection. The line will be 2 meters in length, and on the right side of the corridor/lane.

CONSTRUCTION:

1. The student(s) will bring paper or other material to construct two paper airplanes. The materials will be examined as to size and stiffness.
2. The student(s) will have 30 minutes to construct their planes.
3. The student(s) may bring any construction tools they plan to use. These tools may include but are not limited to rulers and scissors.
4. The student(s) may bring any finishing materials they choose. These may include but are not limited to scotch tape and paper clips.
5. The student(s) may bring modeling clay for trimming.
6. The event supervisor will provide a digital centigram balance for use by the student(s).
7. The student(s) will be allowed two-test flight for each plane, prior to the placing of any obstacles.
8. The planes will be impounded.

COMPETITION:

1. A second hoop, not to exceed 60 centimeters in diameter will be placed in the second corridor/lane 1 meter from the corner. The hoop, measured from the center of the hoop, will be 2 meters from the right hand wall/boundary line and 1.5 meters from the floor.
2. The plane is to be launched from a point on or behind the launch line. The plane is to make a turn to the right and pass through the 60-centimeter hoop and continue along the corridor/lane.
3. The student(s) will be allowed five (5) minutes to make up to three (3) launches using one or both of the planes constructed.