## Paper Airplane Olympics - Spring 2015



The Paper Airplane Olympics is a series of four events and 1 exhibition event involving paper airplanes. You will participate in this project in pairs.

## Airplanes:

- All airplanes will be built outside of class time or during the test day.
- Any type of paper and glue can be used to construct the planes.
- Each group of contestants can bring up to 5 airplanes to be used for any of the events.
- Each group will be allowed three launches in each event.


## Timeline:

- Introduction to project will be one week prior to testing.
- You will be given 2 days of class time for testing.
- The Olympics will commence with Event \#1 and finish with Event \#5.


## Scoring

- Each event has a top score of 10 points.
- Scoring will depend upon the event.
- Your teams total score will be determined by the 4 highest event point totals.


## Event \#1

The Amelia Earhart: The plane shall be launched from the corner of the gym.

- The horizontal distance from the launch position to the first location the plane touches anything is the distance recorded.
- The greatest distance achieved will receive 10 points. Others will $=10-[($ Max-Score $) / 10]$


## Event \#2

The Chuck Yeager: Planes must first touch the floor as close to a predetermined " X " as possible.

- The launches will be conducted as in Event \#1.
- The plane that touches the floor closest to the "X" will be awarded 10 pts.
- Other scores will be determined by the following method: You will lose 0.25 pts for every $12^{\prime \prime}$ from the closest plane. If the closest plane touches 12 " away from the " X " and your plane touches 36 " away from the " X " then your score will be 9.5 pts .


## Event \#3

The Wright Flight: Planes will be launched from the mezzanine in the gym. The goal is the longest flight time.

- The time from the launch until the plane strikes any surface will be measured.
- The plane with the longest flight time will be the winner and will be awarded 10 pts. Others will lose 0.5 pts for every 1 sec less than the winner.


## Event \#4

The Jim Marshall: Planes must go outside the jump circle from the launch position, turn and return to the launch point.

- A plane that does not go outside the jump circle will be disqualified and earn 0 pts.
- The location is determined by where the plane comes to rest not where it hits the ground.
- The plane that lands closest to the launch point is the winner and will receive 10 points.
- Other scores will lose 0.25 pts for each 12 from the winner.


## Event \#5-Exhibition event

The Curtis LeMay: The idea is to get your plane to execute a series of turns.

- The launches will be conducted in the center of the gym floor.
- The plane with the highest numbers of turns will be awarded 10 pts. Others will lose 0.5 pts for every turn less than the winner.

