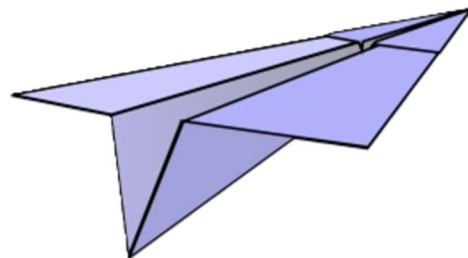


Airplane Derby



Number of players: Two or more

Age group: 4 years and up

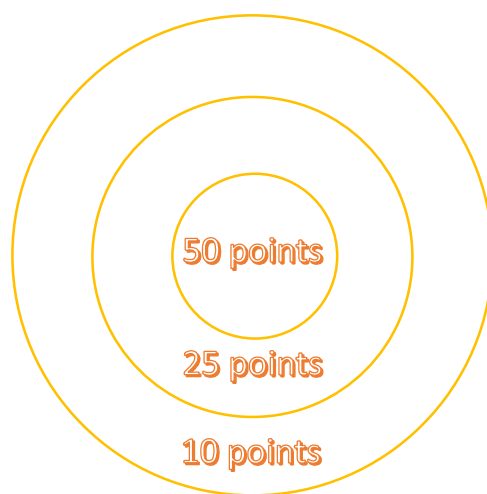
Equipment needed: Printer paper, 40 feet of bright-colored rope, a stopwatch, pencil & paper, 100 ft. tape measure (optional)

Indoor Outdoor

The Airplane Derby consists of four competition challenges: **Accuracy**, **Maneuverability**, **Distance**, and **Duration**, with the overall competition divided into age or grade divisions.

“Pilots” make their own paper airplanes, either at the place of competition, or ahead of time. Go to: <https://www.foldnfly.com/#/1-1-1-1-1-1-1-1-2-1> for airplane design ideas and instructions. All planes must be launched by hand (no rubber bands).

ACCURACY – A bullseye is created on the ground or floor with three pieces of rope, one about six-and-a-half- feet long, one about 13 feet long, and one about 20 feet long. With the ends tied together, the six-and-a-half-foot rope creates a circle that’s about two feet across. The 13-foot-long rope makes a circle that’s roughly four feet across, and the 20-foot-long rope makes about a six-foot diameter circle. Standing about fifty feet away from the bullseye, each pilot tries to land their plane within the center circle for 50 points. Landing in the middle ring scores 25 points and the outer ring is worth 10 points. The highest value ring is counted when any part of the airplane is in it.



MANEUVERABILITY – This is exactly the same as the **Accuracy** competition except that, instead of facing the bullseye, pilots must throw their planes at 90 degrees to the target, trying to curve their airplane into the bullseye.

DISTANCE – Each pilot tries for a glide with the longest distance. Use a tape measure, or count paces, to determine the distance from the starting point to the landing spot.

DURATION – A stopwatch is used to record the length of time that each airplane stays in the air. The pilot with the longest glide-time is the winner!

Windy outdoor conditions can make these competitions very difficult, so you may want to have a big indoor area (like a gymnasium or empty barn) as a backup location. You can also come up with your own competition challenges like the biggest loop, the most circles, the fanciest airplane design, head-to-head racing, etc.