

- d. At the Event Supervisor's discretion, practice flights may occur throughout the event but will yield to any official flight. Multiple practice flights may occur at the same time. No trim (practice) flights will be permitted in the last half-hour of the event.
  - e. A self-check inspection station may be made available to competitors for checking their airplanes prior to being checked by the Event Supervisor.
  - f. The use of any type of winder is permitted.
  - g. Team members will present their event materials (airplane(s), motors, and log) for inspection immediately prior to a team's 2 official flights. **Qualified motors will be held by the official timer and dispensed at the team's choosing during the team's official flights.** Flight Logs will be returned after inspection. Timers **will** follow and observe teams as they are winding their motors.
  - h. Teams may make up to a total of 2 official flights using one or two airplanes.
  - i. Teams will be given an 8-minute "Flight Period", starting when their first **declared flight (trim or official)** begins. Any flight beginning within the 8-minute period will be permitted to fly to completion. Participants may make adjustments/repairs/trim flights **and qualify additional motors** during their official 8 minute period. Teams must declare before any launches during their flight period as to whether it is an official flight or trim flight. If teams do not indicate the flight type before launch, it will be considered official. Teams will not be given extra time to recover or repair their airplane(s).
  - j. The **Timer** will allow the team to select from previously approved motors for each official flight.
  - k. The **timing official** will measure and record the "Time Aloft" in **hundredths** of a second for each flight. Time Aloft for each flight starts when the airplane leaves the student's hand and will stop when any part of the airplane touches the floor **or comes to rest (for a second or more) on any obstructions even if prop continues to rotate.**
  - l. The Event Supervisor may permit other official flights during the flight of another team's airplane once it has started its descent.
  - m. Steering the airplane during flight is prohibited. In the unlikely event of a collision with another aircraft, a team may elect a re-flight. The decision to re-fly may be made after the airplane lands. The eight-minute period does not apply to such a flight.
4. **SCORING:** The winner is the team with the longest flight time for either flight. Ties will be broken by the longest time of the other flight.
- a. Bonus:
    - i. State Tournaments Only: **30%** of the flight time will be added if the airplane's wing's chord (measured from leading edge to trailing edge) measures less than **7.0 cm**.
    - ii. National Tournament Only: **40%** of the flight time will be added if the airplane wing's chord measures less than **6.0 cm**.
  - b. Teams with incomplete flight logs will have 10% of the flight time deducted from each flight.
  - c. Teams without flight logs will have 30% of the flight time deducted from each flight.
  - d. Teams that violate a rule under "CONSTRUCTION" or "THE COMPETITION" that does not have a specific penalty will be ranked after all teams that do not violate those rules.
- National Science Education Standard: Content Standard E. All students should develop abilities of technological design and understandings about science and technology.

See: <http://www.soinc.org/events/wrightstuff/> for additional information

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