



STEM Wars 2026

Middle School Aviation Competition Information

Event Coordinator:

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- Please contact him with any questions.

Main Task: Design and build a balsa-wood (rubber-band-wind) airplane. (picture below)

Competition Learning Objectives:

Be able to:

1. Demonstrate basic knowledge about the primary surface controls and parts of an airplane.
2. Design and build an airplane similar to the one in the picture below.
3. Fly your balsa-wood airplane the farthest possible distance on a provided runway path.

Criteria and rules:

1. Build your own balsa-wood airplane.
2. Properly locate and label the primary control surfaces and parts of an airplane.
3. Prepare the airplane so that it flies the farthest distance from a starting point.
4. Fly airplane when your turn comes up.

Winners are:

The top three pilots that get their airplane to fly the farthest, in one try, will be awarded First, Second and Third place certificates of participation.



Online Link for a sample:

<https://www.basspro.com/shop/en/channel-craft-inc-sky-streak-balsa-wood-power-planes>