



Elastic Launched Glider

Description	A team will design, construct and test elastic-launched gliders to achieve the maximum time aloft.
Time Limit	Test Time: 5 minutes
Team Size	Up to 2 students
Details	<ul style="list-style-type: none"> ➤ The glider must be constructed from the following materials: wood, foam, paper, plastic film, tape or glue. Ballast may be of any malleable substance. ➤ The mass of the glider must be more than 4.0 g and less than 15 g. ➤ The wingspan of the glider must not exceed 35 cm. ➤ The length of the glider must be at least 25 cm. ➤ The launch handle, including the elastic may not exceed 1 m in length. ➤ Gliders must be launched from a launch handle by a single competitor who must have contact with the floor. ➤ Teams must present their completed flight log prior to running their official flight trials. ➤ Teams may have up to 5 official flight trials. ➤ You must have three timers for each official flight.
Competition Scoring	<ul style="list-style-type: none"> ➤ Teams will earn points based on the greatest time aloft. Time aloft for each flight starts when the glider leaves the launch handle and stops when any part of the glider touches the floor. ➤ After the competition teams will be ranked based on time and scored according to the tiers below. <ul style="list-style-type: none"> ○ Tier 1: Top third of class (57-60 Points) ○ Tier 2: Middle third of class (53-56 Points) ○ Tier 3: Bottom third of class (49-52 Points) ○ Tier 4: Did Not meet Construction Parameters, but did construct a functioning glider. (48 Points)
Required Event Paperwork	<ul style="list-style-type: none"> ➤ Elastic Launched Glider Design Notebook (20 points) ➤ Flight Log (20 points)
Timeline	Building and Testing Days: Competition Date:





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