## The American Rocketry Challenge 2020 Explained

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The rocket must reach an altitude of 800 feet. Teams are penalized one point for every foot above or below the goal.

4

All parts of the rocket must descend safely and remain connected together. Rockets must descend using at least one parachute.

2

The rocket must carry a payload of one raw egg and safly return it to the ground uncracked. All parts of the rocket must remain tethered or connected through takeoff and landing.

5

The duration of the flight must be between 40 to 43 seconds. Teams are penalized by four points for each second outside that window.

1

Teams of 3 to 10 students work together to design and construct a rocket.

6

At the National Finals, the rockets will be required to reach two new altitude goals of 775 or 825 feet within 39-42 seconds or 41-44 seconds respectively.



## **SCORING:**

Teams are ranked on the combined score from their two best flights, the lower the better!

SCORING FOR EACH =  $\frac{\text{Unbroken}}{\text{Eggs}}$  +  $\frac{\text{# of feet}}{\text{over/under}}$  +  $\frac{\text{seconds}}{\text{over/under}}$  x 4

FLIGHT 1 + FLIGHT 2 = TOTAL SCORE

