**Aluminum Foil Skyscrapers Rules**

**General Description**: Teams of up to 3 collaborate to construct Aluminum foil towers at competition. There is no limit to the number of teams of 3 a school can submit. The tallest tower that can hold a ping-pong ball for 5 seconds wins.

**Competition Time:** 10 minutes

**List of Materials per team**:

* 1’ by 3’ Aluminum foil
* 1 meter stick
* Sharpies, pencils- cannot be used in actual construction, only as tools for precise measuring.
* Scissors
* 1 ping pong ball
* 10 cm of scotch tape

All materials are provided at competition.

**Competition:**

* Each school team is allotted 10 minutes on site for all its Aluminum Foil Skyscrapers teams to build simultaneously their tallest towers.
	+ For example, if 5 teams enter per school, all the school’s teams will enter and leave the competition site at the same time.
* An event supervisor will use a stopwatch to measure competition time and will countdown to indicate the start of the event.
* Competitors are allowed to test towers with ping pong balls before calling over an event supervisor. Once indicated, the supervisor will record the height of the tower if it successfully supports the ball for 5 seconds. Supervisors must measure the time the tower can support the ball with a stopwatch.
* Limited to using only the materials provided at competition, competitors can build, rebuild, and add to towers as many times as they want. They can call event supervisors to time the tower holding a ping pong ball as many times as they want as well. Only the highest height record of a Aluminum Foil Skyscrapers team will be used to determine the winning team.
	+ For example, a team may build a tower that is 15 cm, ask an event supervisor to record its height if successful, work to increase the tower’s height to 60 cm, and then ask the supervisor to record the new height (if successful).

**Violations**:

If an event supervisor observes any of the following from a team, he or she will give the team a competition violation penalty deduction of up to 5 points.

* Profanity
* Bad sportsmanship
* Bullying

**Scoring:**

* Height Score (HS): Height of tallest tower in centimeters.
* Violation Score (VS): Number of violations
* Total Score (TS): HS - VS