**Toothpick Egg Drop Rules**

**General Description**: Teams of up to 2 construct a protective case (egg drop) for an egg to be dropped from specific heights. The lightest structure wins.

**Section 1: Competition**

* All egg drops are to be built prior to the Egg Drop competition time slot.
* Before the Egg Drop competition begins, all teams must register their egg drops at the Toothpick Egg Drop registration table.
  + The registration table will be near the Egg Drop competition site. At the registration table, event supervisors will mass and label the egg drops. Event supervisors will create a list of names
* Schools must submit at least 3 egg drops from 3 different teams. Individual Egg Drop teams are not limited to the number of egg drops they submit.
* When the competition begins, an event supervisor will call each team to drop all its egg drops.
* There will be four rounds rounds:
  + 1st round: height = 3 ft
  + 2nd round: height = 5 ft
  + 3rd round: height = 7 ft
  + 4th round: height = 10 ft

**Section 2: Construction**

Parameters

* Maximum mass (without the egg): 200 g
* Must fit within a 20 cm by 20 cm by 20 cm box.

Materials

* Hot glue gun
* Toothpicks

**Section 4: Scoring**

* Mass score (MS) = mass of egg drop in grams
* Violation score (VS) = 5(Violation points)
* Total score (TS) = MS +VS
* Tiers: Any egg drop that is scored in a higher (lower number) tier than another egg drop places behind all egg drops in higher tiers. All egg drops with eggs that survive all four rounds are placed in Tier 1. All egg drops whose eggs do not remain intact past 7 ft high are scored in Tier 2 and automatically place behind in tier 1. Same with tier 3 and tier 4; an egg drop that belongs in Tier 3 places behind any egg drops scored in Tier 1 and Tier 2, and any egg drop that is scored in Tier 4 places behind egg drops scored in Tiers 1, 2, and 3.
  + Tier 1: 10 ft high
  + Tier 2: 7 ft high
  + Tier 3: 5 ft high
  + Tier 4: 3 ft high
* Lowest score wins