

## **STEM Egg Drop Challenge — Official Rules**

### **All Middle School - Age Children Grade 5 – 8 or Age 10-14**

**Saturday, April 5, 2026, at Delta City Park, after the kid's Easter Egg Hunt**

#### **Team Requirements**

- Teams may consist of **1–4 participants**
  - All participants must actively contribute to **design, building, and testing**
  - One egg per team
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#### **Design & Build Rules**

- 1. Egg Condition**
    - Egg must be **raw, whole, and unaltered**
    - No hard-boiled, pre-cracked, frozen, or reinforced eggs
  - 2. Device Size Limit**
    - Final device must fit inside a **12 in x 12 in x 12 in** cube
  - 3. Weight Limit**
    - Maximum device weight: **24 oz (1.5 lbs.)** including the egg
  - 4. Egg Visibility**
    - Egg will be given and inserted at event
    - Egg must be **removable for inspection**
    - Judges may inspect before and after the drop
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#### **Allowed Materials**

- Paper (printer paper, cardstock)
  - Cardboard
  - Straws
  - Craft sticks / popsicle sticks
  - String, yarn, twine
  - Rubber bands
  - Tape (masking, painter's, or clear)
  - Cotton balls or recycled padding (newspaper, tissue)
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#### **Prohibited Materials**

- Foam, Styrofoam, sponges
- Balloons or inflatable materials
- Liquids, gels, sand
- Metal, glass, or sharp objects
- Pre-manufactured shock absorbers

- Any material deemed unsafe by judges
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### **Drop Rules**

- Drop height: **From the roof of the Delta Fire Station**
  - Device must be **released by an official**
  - No lowering, tossing, or guiding after release
  - One official drop per round
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### **Judging Criteria**

Eggs are checked immediately after impact.

#### **Scoring:**

- **Egg survives** (no cracks or leaks)
  - **Most Creative Design**
  - **Lightest Successful Device**
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### **Disqualification**

Teams may be disqualified for:

- Using prohibited materials
- Altering the egg
- Unsafe designs
- Tampering after inspection

