



Enatai Elementary Egg Drop Challenge

September 27th, 2019 during Lunch Recesses

Learn about energy, motion and the consequences of design engineering. Then watch to see whether each falling egg will survive intact or **SPLAT!**

The Challenge: Build a container/device that will protect a raw, uncooked egg as it is dropped from a 70-foot high ladder by the Bellevue Firefighters (pending any departure due to emergency fire response calls!) or Bellevue City Utility Bucket Truck.

How the competition works: All containers must be made at home or school **prior** to the event. **Bring your unsealed, eggless container to school the morning of the drop.** Check-in starts at 7:40AM at the school front door. Please have your name and grade written on your container. Volunteers will collect the containers, install the egg and prep it for the drop, which will take place during all the lunch recesses. **Registration Deadline is September 20th.** Please volunteer to help during your child's recess time.

Rules:

- You must be a student at Enatai Elementary School.
- Container must hold a large AA egg. The Enatai PTSA will provide 1 egg for each student.
- Label your container/lander with your name and grade.
- Weight and Size and Design Restrictions: 2 lbs., 10-inch maximum package in all directions
- The following materials **are allowed** in the design: plastics, balsa wood, straws, cotton, cardboard, tape, string, toothpicks, glue (for gluing things together NOT to sit in), rubber bands, toilet paper tubes, Styrofoam cups, etc.
- The following materials **are not allowed** in the design: Any type of parachute contraption (designs must be able to free fall). Packing peanuts, bubble wrap or any other packaging material or foam. Metals, glass, chemical containers, plastic containers with screw on lids, other Styrofoam (with the exception of Styrofoam cups), and thick wood (such as 2x4). No gases other than air may be used. (No helium balloons). No splatterable material such as peanut butter, Jell-O, liquids, fruit or vegetables, but popcorn is OK. No flammable substances.
- The PTSA also reserves the right to refuse gratuitously messy, obvious splatters, or potentially dangerous entries.
- Containers may be made by the student with minimal assistance.
- Container must be constructed with a hatch or door so that the egg can be inserted before the drop. Tape can be used for this purpose. We will have tape on hand at check in.
- Failure to follow design the guidelines above could result in disqualification. It is up to the judges' discretion as to whether or not the guidelines are being followed.
- A cracked egg is defined as one that is visibly leaking its contents. Hairline fractures are not considered cracks.

Let the creating, designing and building fun begin. Will your egg survive the drop or **SPLAT?**