



Somerset Elementary PTSA

2023 Egg Drop Challenge

CREATE - BUILD - CATAPULT!

OPEN TO ALL STUDENTS, K-5, SOMERSET ELEMENTARY SCHOOL!

MAY 24TH, WEDNESDAY, 11AM-1:15PM, SOMERSET SCHOOL PLAYGROUND

Learn about energy, motion and design while having fun watching eggs survive or splatter!

THE CHALLENGE

Your goal is to design some kind of protective container/lander that can hold a raw chicken egg and help it survive an EGGSTREME drop off from a 60-foot high bucket truck provided by Eastside Treeworks! The lightest lander that survives the drop wins.

GENERAL INFORMATION AND RULES

1. You may register as an individual or as a team (max. 3 participants)
Link for registration is attached at the end.
2. You will need to submit one lander per individual/team for the launch. Teams may want to choose members with shared recess so all team members can watch their lander drop. Launches will take place during the lunch recess.
3. Students will bring their landers to class in the morning on Wednesday, May 24th, with a raw chicken egg inside the lander. The egg must be a large USDA grade AA uncooked chicken egg.
4. The lander must be clearly labeled with your name(s) / team name and teacher's name.
5. Students will not have an opportunity to make adjustments to their devices after collection.
6. No store-bought egg dropping kits / ready-made designs may be used.





SPECIFICATIONS AND CONSTRUCTION GUIDELINES

1. Max. Weight and max. Size restriction for the design of lander: 2 lbs, 10 inch maximum package in all directions.
2. The following materials are allowed for use in the design: Plastics, sandwich bags, balsa wood, toothpicks, string, popsicle sticks, tape, paperclips, straws, cotton balls, pipe cleaners, rubber bands, paper, popcorn, balloons, newspapers, string, toilet paper tubes, dried glue, etc. Students in grade 5 alone may use a parachute contraption in their design.
3. Materials that are NOT permitted for use in the design: Glass, metals, chemical containers, plastic containers with screw-on lids, Styrofoam, thick wood (such as 2 x 4) Packing peanuts, foam, bubble wrap or other store-bought packaging material Any type of parachute contraption (designs must be able to free fall) - except for 5th graders
No gases other than air may be used (no helium balloon)
No splattering substances such as Jell-O, peanut butter, liquids, fruit or vegetables
No flammable substances
4. Students' landers must be designed and built by students. Adults may provide only minimal assistance.
5. An egg that survives the drop is defined as one that is not visibly leaking its contents. Hairline fractures are not considered cracks.
6. Failure to follow design guidelines will result in disqualification. It is the judges' discretion on decisions pertaining to whether or not the guidelines are followed. Disqualified landers will be ineligible for participation in the drop.
7. Landers with raw egg included will be collected and prepared for the drop by volunteers in the morning. It is the student's responsibility to load the raw egg and close the lander before the drop. Empty lander without an egg inside disqualifies.

Special recognition to the lightest lander in each grade that survives the drop!

The PTSA reserves the right to refuse gratuitously messy, obvious splatters or potentially dangerous entries.

LINK For STUDENTS To REGISTER

[Register your team here](#)



LINK For PARENTS To VOLUNTEER

[Sign up here to volunteer](#)

