

Challenge

Egg Drop Re-invented!

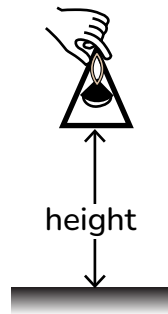


The device that protects the egg from the highest fall wins!

Criteria: (what your design must do)

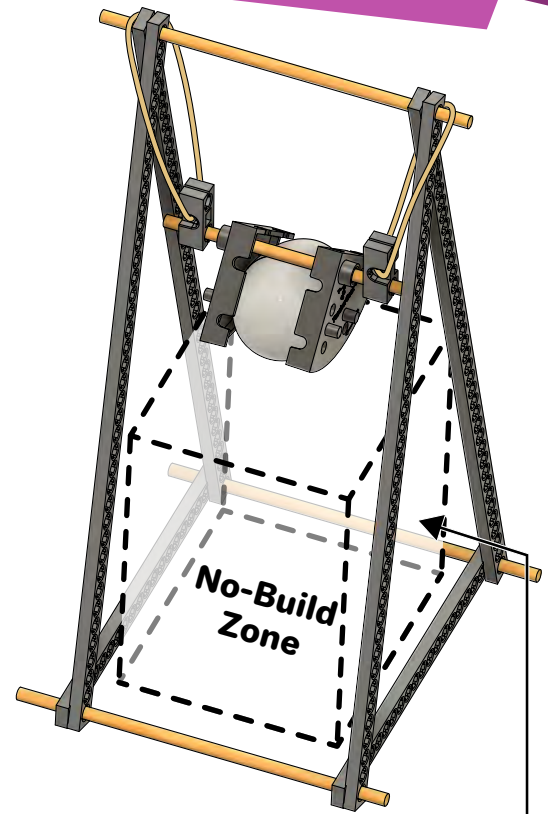
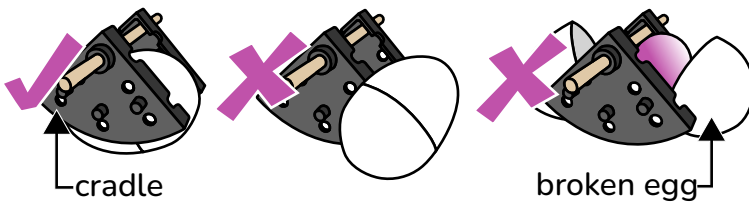
Measuring Height

The bottom of your device to the ground counts as the height.



Protect the Egg

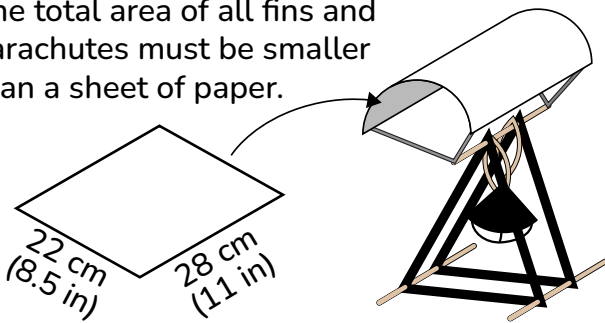
Your egg must stay in the cradle without breaking.



Constraints: (rules & limits for your design)

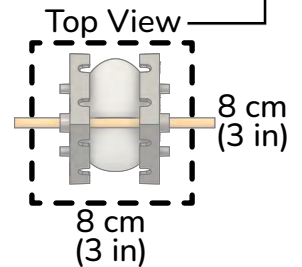
Fins & Parachutes

The total area of all fins and parachutes must be smaller than a sheet of paper.



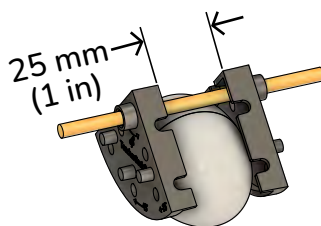
No-Build Zone

Your egg needs an unobstructed view of the ground! The window should be 8 cm x 8 cm (3 in x 3 in).

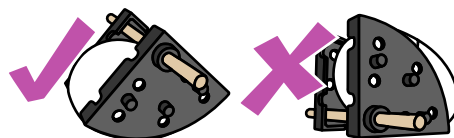


Cradle Rules

Only the cradle can touch the egg. It must have a gap of 25 mm (1 in).



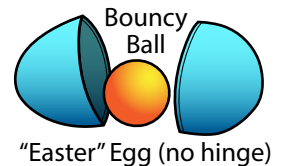
The cradle must face down when your device lands.



How do you like your eggs?

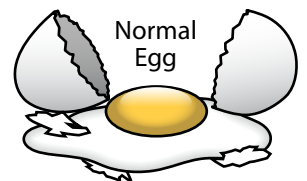
"Do-Over Easy"

Great for testing & improving designs with no mess!



"Scrambled"

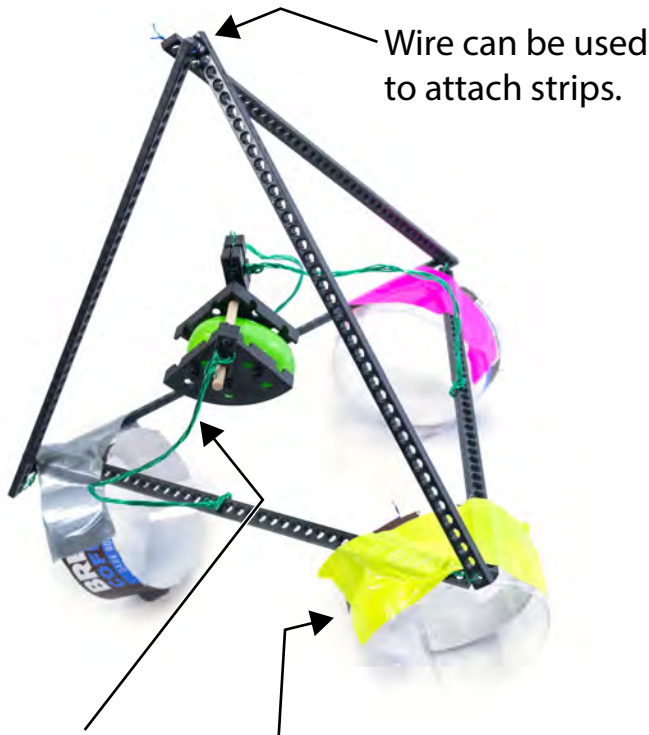
A fun, messy way to do the final competition!



There are tons of ways to make your Egg-Drop Device!
These are just a few ideas to get you started.

Rigid Frames

(Frames that don't bend)



Use wires, recycling bin materials, or rubber bands to absorb the impact.

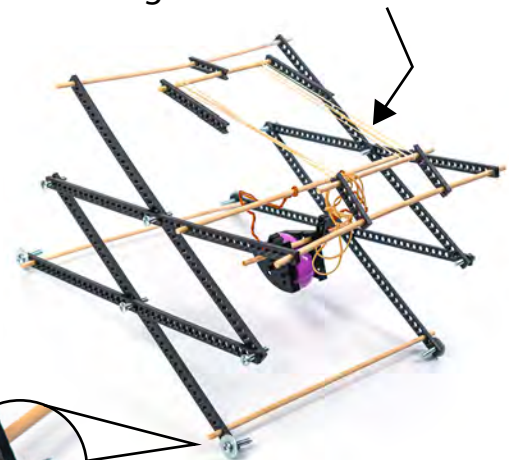
Articulated Frames

(Frames that bend)



Use screws to make joints.

The frame collapses when it lands, stretching the rubber bands.



Wheels or washers let your frame slide and open.

Make It Better!

The Engineering Design Process never ends!
There is no perfect design.

