



Egg Drop Challenge – With a Twist!

Supplies:

- Recycled Materials
- Tape (masking, electrical, or duct)
- Raw Eggs

Directions:

1. The typical egg drop challenge is when girls would build some kind of container that will safely cushion a raw egg dropped from approximately ten feet. However, this is a twist on the standard egg drop challenge - Girls can only use recycled materials for the container!
2. Girls must use materials that would have otherwise been recycled (clean, of course!) and utilize those items to create a container to safely transport their egg upon landing from a ten foot fall.
3. This is a multi-part activity – depending on how you wish to manage the steps.
4. Girls should be introduced to the challenge, be asked to consider their design, and then spend some time collecting the materials.
5. You can either have girls create their containers at home or turn it into a troop activity.
6. If you do not have easy access to a ten a foot drop, then please have an adult use a ladder to drop the eggs.
7. After the eggs are dropped:
 - Girls should discuss why they choose the materials and how their design was developed. Was their design based on the materials, or did they make the materials work for their design? Why were they asked to use recycled materials?

STE(A)M Subject(s):

Engineering, Recycling, and Physics

Related Badge(s) or Journey(s):

(B) Household Elf

Additional Resources:

Physics behind an egg drop: <http://myfavoritekindofcrazy.com/wp-content/uploads/2014/03/Science-of-the-Egg-Drop1.pdf>

Egg Engineering:

http://www.skitsap.wednet.edu/cms/lib/WA01000495/Centricity/Domain/1233/egg_drop_another_teachers_with_physics_infor.pdf

Recycling Facts: <http://www.sciencekids.co.nz/sciencefacts/recycling.html>

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