

## HONORS PHYSICS

### Egg Drop Experiment

#### Objective

To design and build a contraption to safely transport an egg from the roof of 1026 to the courtyard below.

#### Guidelines

1. You must provide your own raw egg. You will be disqualified if you use a hard-boiled egg.
2. You may only use the materials provided, along with a pair of scissors. You will be disqualified if you use any additional materials.
3. You can easily Google “Successful Egg Drop Experiment Designs” and find a number of effective designs. You are free to do that but remember, just because it was successful for one person does not mean it will be successful for you.
4. You may opt to sketch a design first and then construct or just begin construction. Its up to you (that’s why I used to word **opt.**)
5. Test your design from a reasonable height. You may not test your design by dropping it from any roof in the school or from any window overlooking the courtyard or the sidewalk.
6. Your final design must fit a 12” x 12” x 12” box.

#### Tuesday

1. Take one picture of your final design and email it to me. Use the name:  
19HPhysYourLastNamePartnerLastNameEggdropPhoto.
2. One team member will bring your final design to the roof. Your partner will stay in the courtyard,
3. Your contraption will be dropped (from rest).
4. You will need to film the descent of your contraption. Email the video to me with the name:  
19HPhysYourLastNamePartnerLastNameEggdropPhoto
5. Take a photo of your contraption on the ground. Email the photo to me with the name:  
19HPhysYourLastNamePartnerLastNameEggdropPhotoFinal.
6. Unless you want to keep your contraption, put it in the trash bag provided.

