

Name: \_\_\_\_\_ Partner: \_\_\_\_\_ Cracked Egg: YES / NO

# Egg Drop Challenge

**Problem:** Humpty Dumpty's nephew, LeRoy Bocephus Dumpty likes to sit at the top of the football bleachers. You must create a device that will save him if he falls off the top bench.

**You will be given a choice of:**

\* 25 plastic drinking straws and 3 feet of masking tape

OR

\*5 pieces of printer paper and 3 feet of masking tape

You will not be given replacement supplies. Plan accordingly. You cannot tape the egg into the device. LeRoy is uncooked and must be able to get in and out of the vehicle easily.

**Assignment (500 points):** Make a device that will protect a raw egg from a 20-ish foot drop. Make sure the egg will not pop out on impact.

Design = 200 pts. Construction = 200 points. Testing = 100 points. **+50 points for a safe landing.**

1. (250 points) Before you will be given your materials, sketch your idea on the back of this sheet and include a one paragraph (50 words) description of what you are making.
2. Take a photo of your device and email it to [nickcornwell@mcps.org](mailto:nickcornwell@mcps.org)
3. What part(s) of your design changed from the original idea in your head to the actual device you made?
4. Write one paragraph on what happened when you dropped your egg device. Did it break? If it did, what do you think you should have done to prevent the break?
5. After seeing the competition, whose egg drop device do you think worked the best? WHY?