**PLEASE SEE THE MASTER DOC OF ALL THE PROJECTS:** [**https://docs.google.com/a/umbc.edu/document/d/1DEfjnIgCGQMXOiv7GwjUW3i2-daaw2PQdcSt2SVhA8U/edit?usp=sharing**](https://docs.google.com/a/umbc.edu/document/d/1DEfjnIgCGQMXOiv7GwjUW3i2-daaw2PQdcSt2SVhA8U/edit?usp=sharing)

Egg Parachute Handout

Materials

-Plastic shopping bag  
 -Styrofoam cups  
 -String  
 -Scissors  
 -Hole punch

-Stopwatch  
 -Hard boiled eggs

Modifications

Experimental plan:

1. Cut a square from the shopping bag that is 20 (10 in.) inches on each side.
2. Use a hole punch to punch one hole in each corner of the piece of plastic shopping bag.
3. Cut four pieces of 20-inch long string.
4. Thread a piece of string through each hole in the bag and secure by tying the string firmly on each corner.
5. Place one egg into the styrofoam cup and tie string to holes made around the cup. This will also attach the parachute to the cup holding the egg.
6. Repeat the experiment with different sizes of shopping bags: large and small.
7. Take the egg parachute to a leveled area of the school and have a mentor drop it from the high spot. (know how far down it is ie. the height)
8. Record the time it takes for each of the two sizes of parachutes to reach the bottom.
9. Repeats steps for 5 trials each.
10. Think about what you know about air resistance or drag. Which size bag do you think will allow the egg to drift to the ground slowly? Why? How fast did the egg fall with each size of parachute? Write your observations in a notebook. Does the experiment prove your hypothesis or not?