



## **Balloon Zip Line!**

### **Supplies:**

- Balloons
- Drinking straws (cut into 3-4 inch lengths)
- String
- Tape
- Clothes pins or clips

### **Directions:**

1. Suspend string between two points – at least ten feet apart. Chair backs are often used.
2. On each string place one 3-4 inch drinking straw.
3. Blow up the balloon, twist the end and clip with a clothes pin
4. Tape the balloon to the bottom of the drinking straw.
5. When ready, release the clip!

\*It is fun to set two zip lines up side by side and allow girls to “race” their balloons!

### **STE(A)M Subject(s):**

Physics and Math

### **Related Badge(s) or Journey(s):**

(B) Making Games (J) Entertainment Technology (S) Game Visionary

### **Additional Resources:**

Alternative resource: <http://beam.berkeley.edu/sites/default/files/ZipLineRacers.pdf>

Thrust: <https://www.grc.nasa.gov/www/k-12/airplane/thrust1.html>

Advanced: Rocket Physics: <http://www.real-world-physics-problems.com/rocket-physics.html>

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