**Balloon Pop Experiment**

**12/19/13**

**Exposure Length:** 2, 2.5, 3, 4 seconds

**Tips:**
- Make sure microphones are at a reasonable distance from the balloon. The closer the distance, the difference in the two exposures. For us, we need them closer.

**Things we used:**
- Camera
- Flash bulbs
- Balloons
- Black cloth backdrop
- Computer (data studio)
- Microphones
- Radio (sound amplifier)
- Signal to flash converting device
- ...more

**General Setup**
- Connect the light sensor to the camera
- Set microphones at a distance away from the balloon.
- Have balloon near backdrop and in front of the microphone.
- Play & record on stereo
- Bring up light sensor on data studio to find when the two flashes go off.
- Set up camera with exposure of 2 or above.
- 4 minutes is the best to allow for time.
- Turn off lights, press start on data studio to start recording the light. Take picture (start exposure) at balloon.
- The sand from the pot should trigger microphone to see a flash which shows up on the picture.
- The other mouse is over it when the further microphone gets sand.
Today we had issues with the second flash bulb. We need a slower speed to set a second flash, but the reaction was too quick and we couldn't set a good exposure. However, the experiment is the same either way; you just adjust the other flash point in the job.

I will outline the procedure as if the second flash works!!!