

Purpose: Find the force function & potential energy function of a piece of bungee and explain why they're safer for bungee jumping than a spring.

Materials:

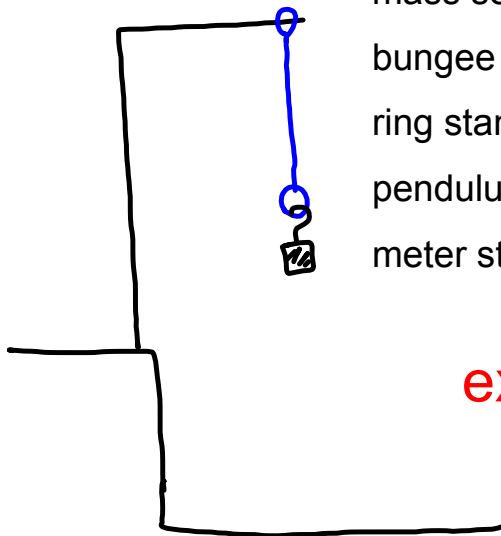
mass set

bungee

ring stand

pendulum clamp

meter stick



Get lots of data, but don't exceed ~700g and don't leave masses hanging for long periods of time.

Analysis:

- Graph (labeled & units).
- Force function.
- Potential energy function & how you got it.

Conclusion:

- Normal +/- error analysis for mass & lengths
- What is it about the shape of that graph that indicates that bungees are more fun & safer than springs?