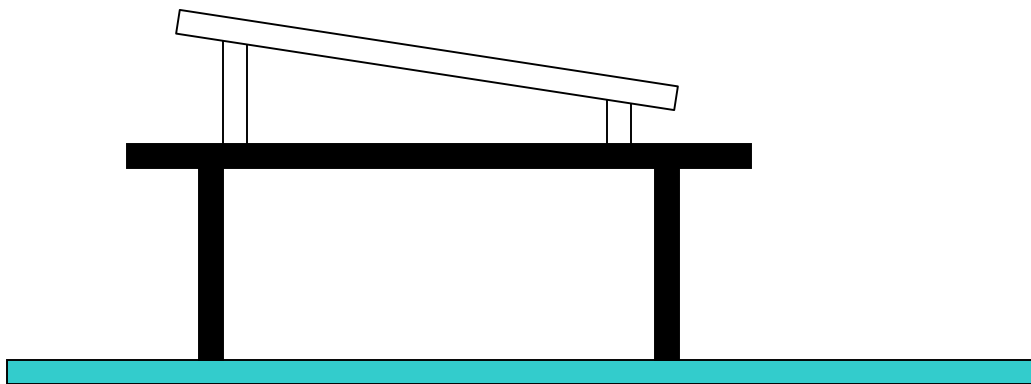


THE SLOW ROLLER

Objective: Construct a device that will take the greatest amount of time to continuously move down an incline.

The incline (aka ramp) will have the following dimensions:

1. Length 100 cm
2. Width 10 – 15 cm
3. Height above table at lower end 30 cm
4. Height above table at upper end 45 cm
5. Material – pine



The roller:

1. Minimum mass is 100 grams. No maximum mass.
2. Mechanical devices such as gears, springs, elastics, etc. designed to slow down, stop, delay or cause the roller to move backwards are prohibited. The roller **MUST** move continuously down the ramp once it has started.
3. The roller may **NOT** stop and then start again with or without intervention.
4. The roller may **NOT** back up at any time.
5. The roller may extend beyond the width of the ramp or fit entirely on the ramp.

The event:

The center of the roller will be placed (by a team member) on the starting line of the ramp and released. The roller must begin to move immediately down the ramp. Devices designed to delay the start of motion are prohibited. The time for the center of the roller to reach the finish line will be recorded. The roller with the greatest amount of time will be ranked first. There will be no tiebreaker.