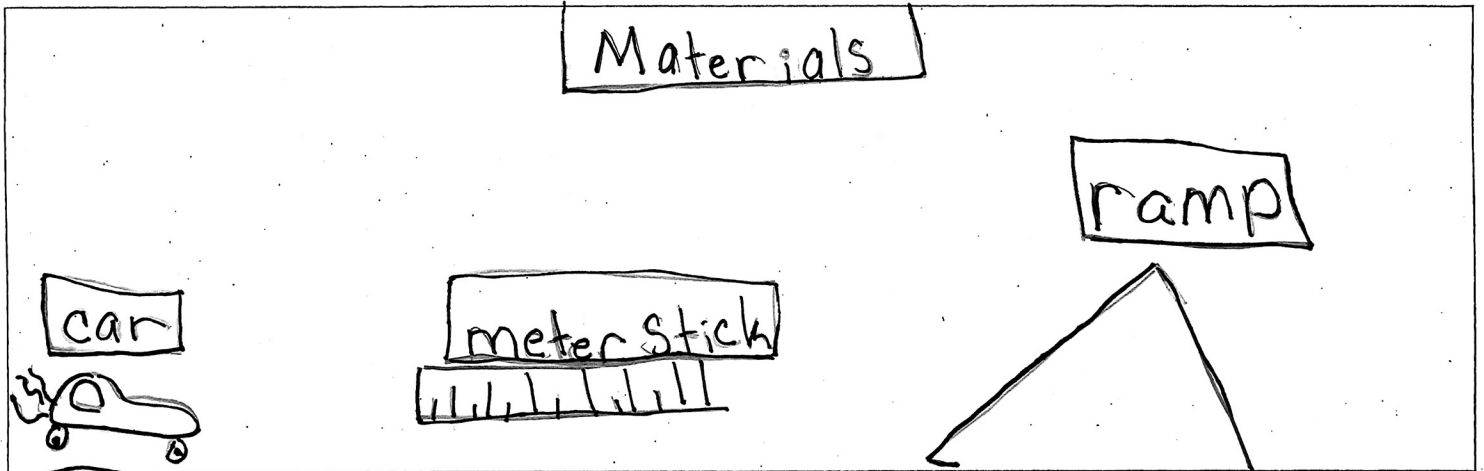


Name: Juliana

Date: \_\_\_\_\_

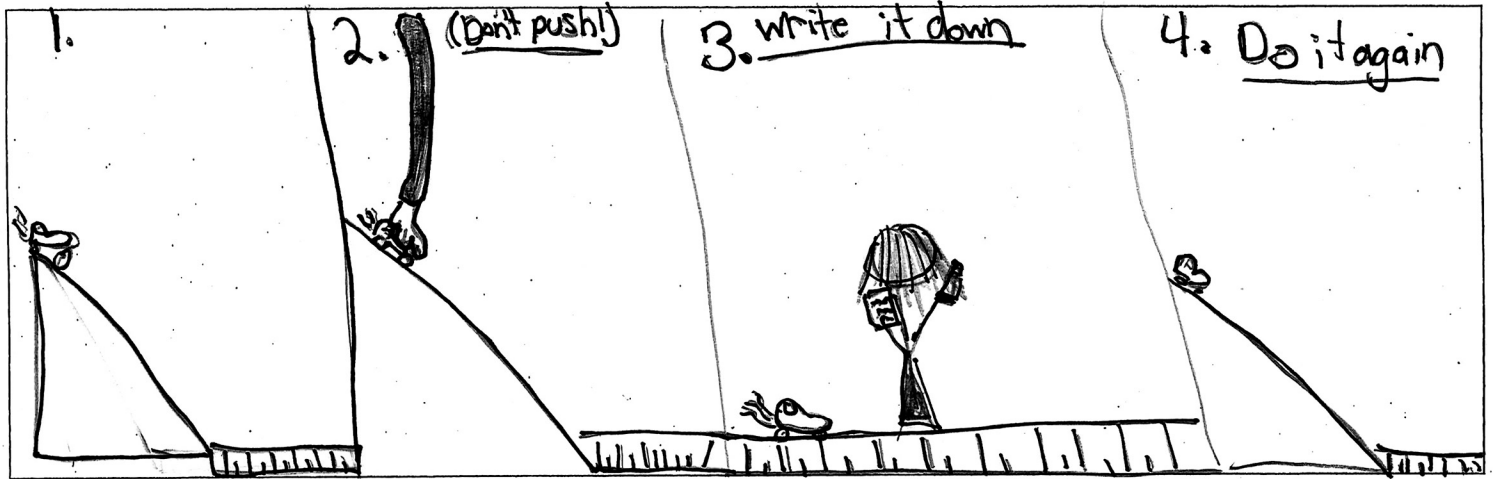


**Problem** If we change the surface (carpet and no carpet) will it affect the distance the car travels?

**Hypothesis** I think the surface will affect the distance. The carpet will slow down the car and it won't go as fast as the tile floor.

Name: \_\_\_\_\_

Date: \_\_\_\_\_



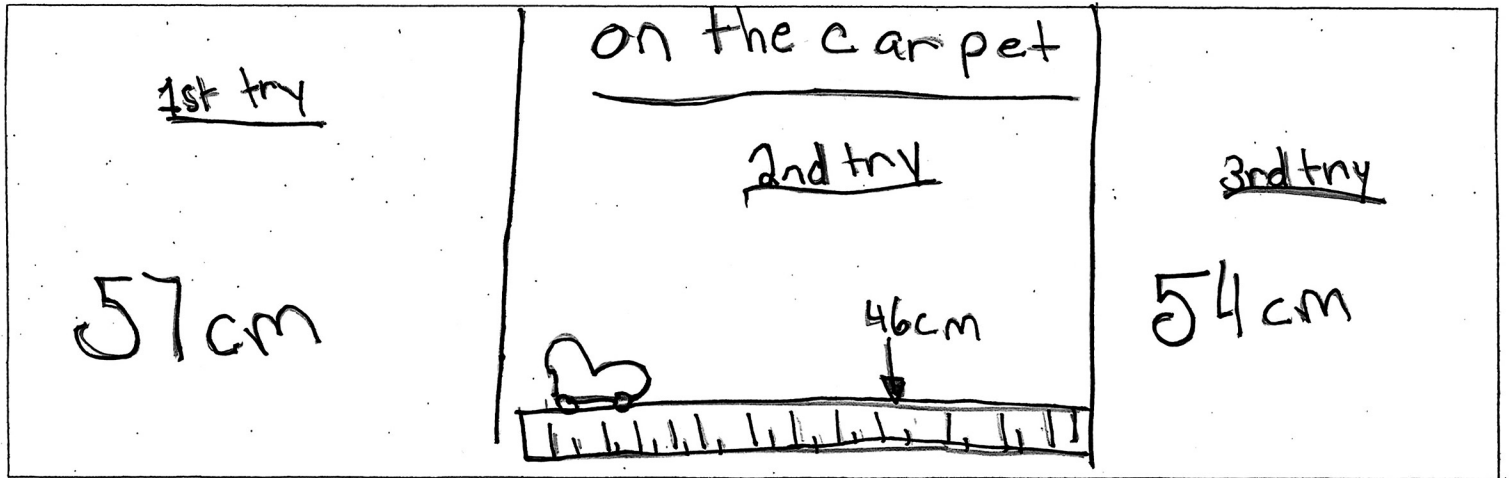
## Procedure

1. Put the ramp and meter stick in a line and put the car on the top of the ramp.
2. Let the car go (don't push it) and wait until it stops.
3. Add the distance and write it down.
4. Repeat this! Try it three times on the carpet and three times on the tile floor.

②

Name: \_\_\_\_\_

Date: \_\_\_\_\_



1. The car went 57cm on the meter stick.

2. The car went 46cm on the meter stick. The car went a little crooked.

3. The car went 54cm on the meter.

③

Name: \_\_\_\_\_

Date: \_\_\_\_\_

<u>1st try</u> 300 cm	On the tile <u>2nd try</u> 269 cm	3rd try 253 cm
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1. The car went really far. We needed to add another meter stick. It went 3 meter sticks.
2. The 2nd time it went a little less. The car went 269cm.
3. The last time it traveled less than the other two. It went 253cm.

(4)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Results

The car traveled much more on the tile floor. It went about 200 more centimeters. The carpet slowed down the car and the car traveled about 50 centimeters. My Hypothesis was right!

(5)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Conclusion

The car slowed down because of the surface where it traveled. The carpet is thick and bumpy. There is more friction. The car has to go up and down all the little bumps on the pieces of carpet. The car went really far on the tile floor because it is so smooth it is almost slippery. The tires on the car don't have anything to make them slow down. That is why they go really far.