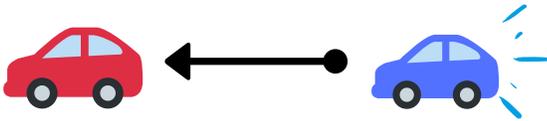


# How will the movement of one car affect the movement of another?



## Predict:



Write - What do you think will happen and why you think this?:

What could we do to test this question?  
What will we measure?  
What will we control for our experiment?  
What data will we collect?

**Materials:**

- 2 toy cars
- Ruler (centimeter preferred)
- Making Tape

**Procedure:**

- Place two toy cars, one in front of the other, as you see in the first picture. Make sure the cars are at least 6 inches apart.
- Place a piece of masking tape on the floor in front of each car so you know where each car started.
- Gently push the 2nd car and observe what happens.
- Measure how far each car has travelled from the starting point.

**Observations**

**Distance Travelled**

Car 1 (cm)	Car 2 (cm)

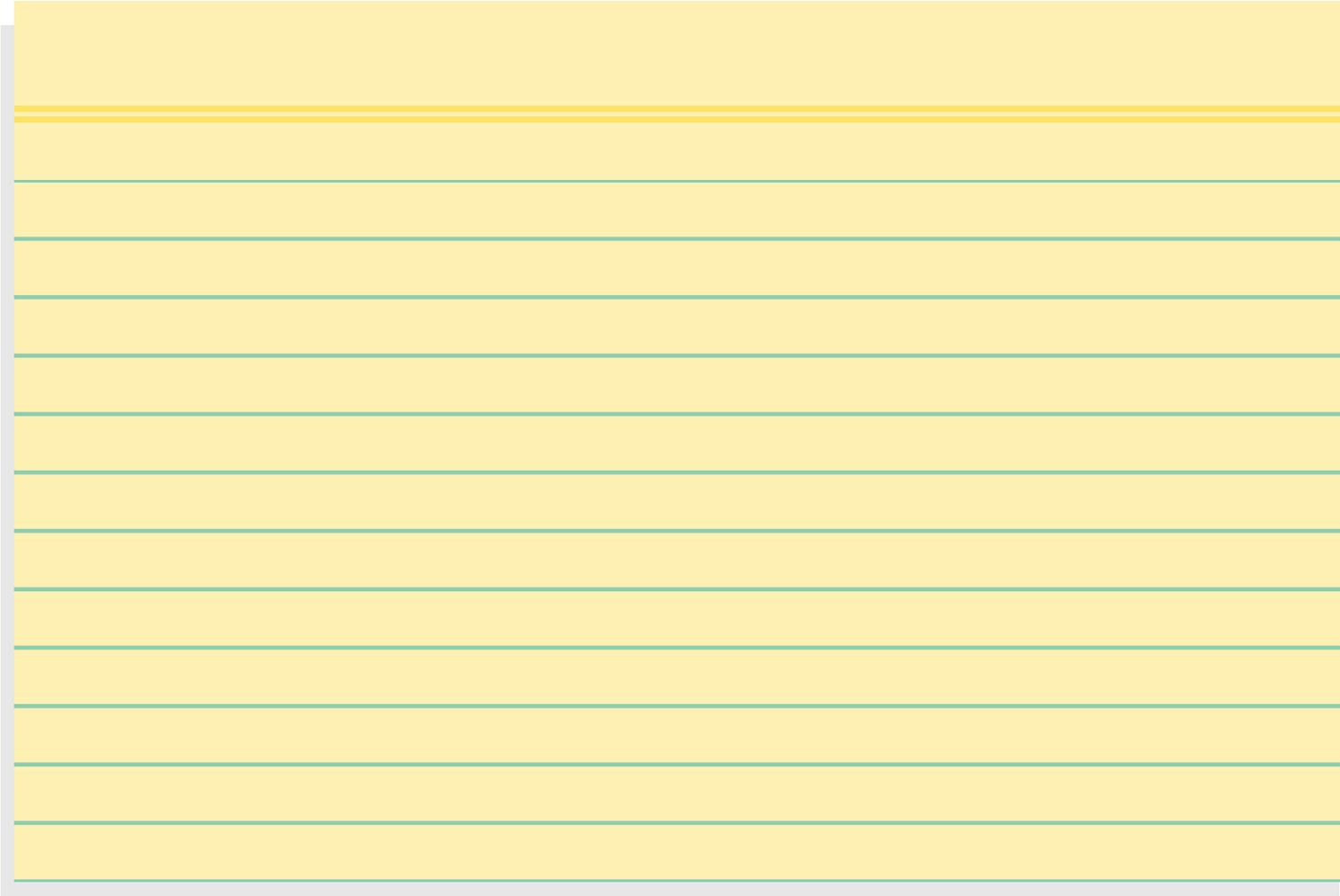


What questions do you have about what you just saw?

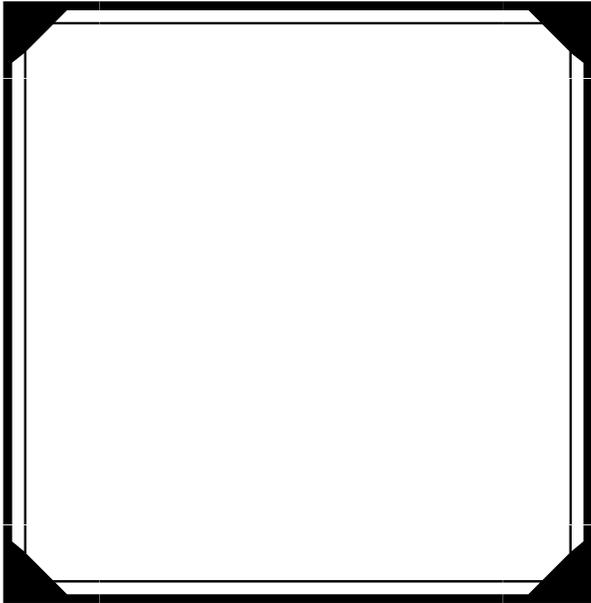
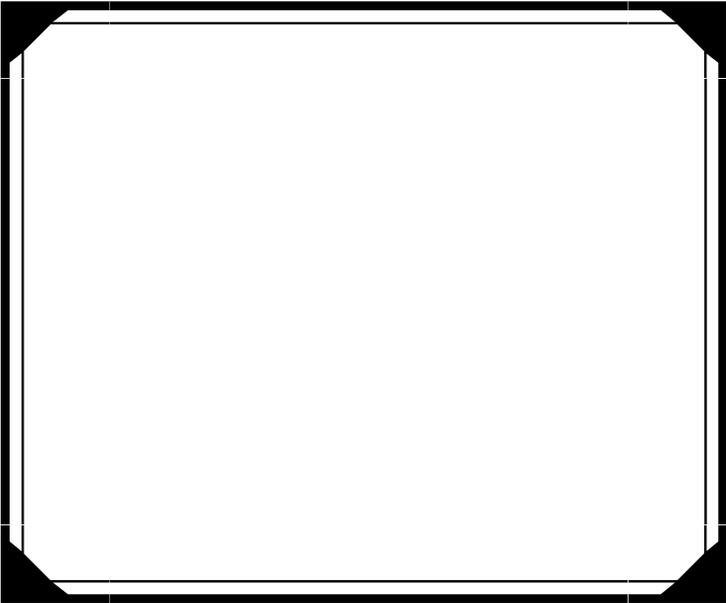
What could we change about our experimental design to help test one of your questions?

How do you think this change will affect the results?

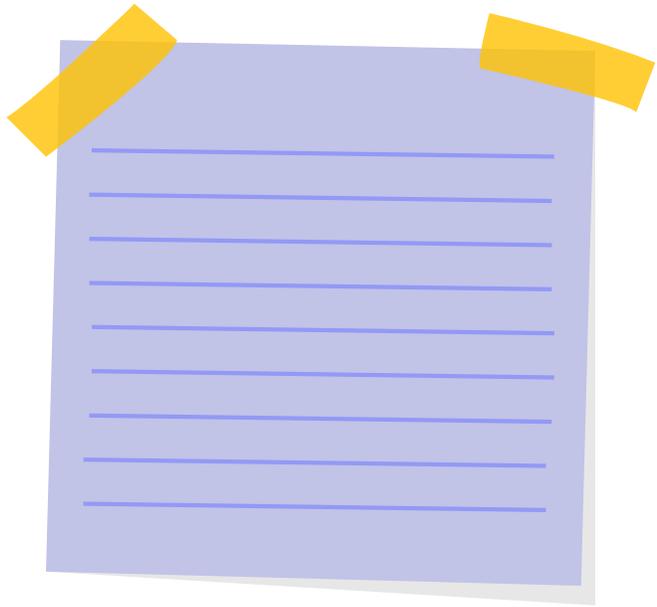
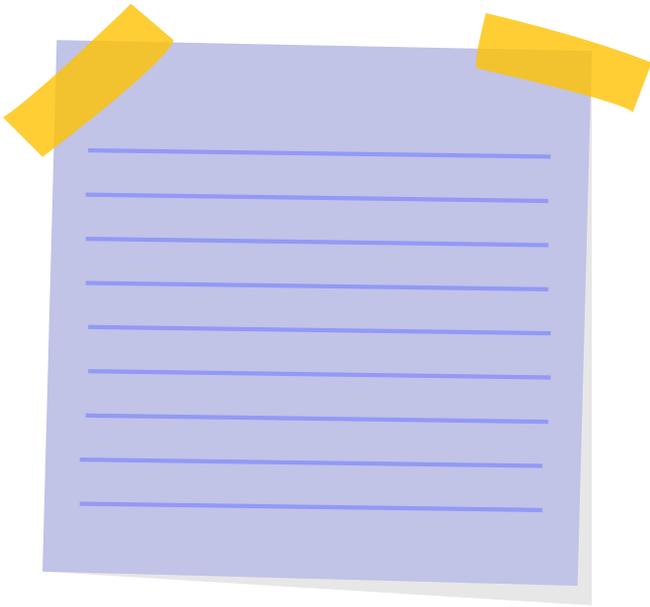
Write out a step-by-step procedure of how you will test this new variable (thing we changed).  
Then try it!



Data Table and Observations:



Watch a video about Inertia. Record your notes in the space below:



Use the information you have learned about inertia to explain what you have learned from your data

A large yellow rectangular area with horizontal green lines, intended for writing an explanation.



**I need help!!** \*See Resource Page!

## How will the movement of one car affect the movement of another?

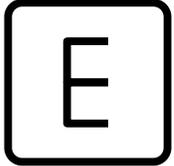


I think that \_\_\_\_\_ is responsible for...

*(Our new vocabulary word)*

*What did you see pattern did you notice in the experiments?*

**I noticed that when....**



*Explain what you did in your experiments and provide the results of your data and observations.*

**This demonstrates Inertia because...**



*Use your notes from the video to explain what inertia is and then explain how the data supports the idea of interita.*

# Claim



Answer to the scientific question!

# Evidence



Observations and numerical data collected from an experiment.

# Reasoning



Use science ideas and vocabulary to explain how the data supports your answer to the question.

