Name: _____ Date: _____

- Your group will be using a car that will accelerate down a cardboard ramp.
- You will see how friction of the surfaces below will affect how far the car travels in centimeters.
- You will complete three trials for each part of the experiment.

How does friction affect the distance in which a car travels from a ramp?			
Surfaces:	Carpeting	Linoleum	Concrete [Outdoors]
Trials:	How far did your car travel in centimeters?		
Trial 1	cm.	cm.	cm.
Trial 2	cm.	cm.	cm.
Trial 3	cm.	cm.	cm.
Average of three trials	cm.	cm.	cm.

Now change the angle of the ramp and complete an extra mini-experiment. How far does the car travel when the ramp is at different angles?

The surface used in this part of the experiment [CIRCLE ONE] :
Carpeting Linoleum Concrete

With the ramp at a 25-degree angle-	With the ramp at a 45-degree angle-	With the ramp at a 65-degree angle-
cm.	cm.	cm.

WHAT COMES NEXT…? <u>On the back, define these words</u>: FRICTION, INERTIA, and TRIAL [in an experiment]