



Tech Ed Problem Solving

“Notecard Car”

Problem: To make a car out of the materials provided that can hold and transport a 1x1x1 inch eraser down a ramp.

Materials: 5 – 3x5 note cards
2 toothpicks
Scissors
Compass or other items to make circles (must be used at the *Tool Station*).
9 inches of masking tape
12” Ruler

Rules:

1. Car may not exceed 8 inches in length and 3 inches in width.
2. Has to have at least 3 wheels and 2 working axles. (A simple machine)
3. Must be able to carry a 1x1x1 inch eraser down an inclined ramp. The eraser must stay inside the car.
4. We will measure in “Inches” how far your car goes from the base of the ramp, where the leading wheel touches the ground, to where it comes to a stop on the course.
5. If your car veers off the designed course the distance will not be measured and the run will not count.
6. *See The Actual Race Setup.*
7. Each car will get 2 runs down the ramp. However you may take test runs before your final 2 runs begin.
8. And lastly you must work as a group.

Class Guidelines: (Earn or lose daily points)

- Use *appropriate* class behaviors.
- Work only with *your group* at your assigned worksite.
- Get *permission* to go the test track.
- Observe all *safety* issues especially sharp points & cutting tools.
- *Clean up* your area and throw away scrap materials at the end of each class period.

Scoring will be the Accumulation of Class points per day & Distance measurement points.

Class Hour _____

Group # _____

Class One point per Category Per Day	1	2	3	4	Trial 1 Distance in Inches	Trial 2 Distance in Inches	Total Points
Behavior					1.	2.	
Participation							
Safety							
Clean Up							

(Cut out along the line)

Turn in to Instructor before getting materials.

Class Hour _____

Group # _____

Team Member Names:

1. _____

2. _____

3. _____

4. _____

Class One point per Category Per Day	1	2	3	4	Trial 1 Distance in Inches	Trial 2 Distance in Inches	Total Points
Behavior					1.	2.	
Participation							
Safety							
Clean Up							