Name
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## **Gravity**

## **Cars and Ramps**

Ramp	Number of	Ramp	Number of		
Centimeter	Centimeters	Centimeter	Centimeters		
Height	The Car Rolled	Height	The Car Rolled		
15 cm	cm	45 cm	cm		
20 cm	cm	50 cm	cm		
25 cm	cm	55 cm	cm		
30 cm	cm	60 cm	cm		
35 cm	cm	65 cm	cm		
40 cm	cm	70 cm	cm		

I. Wi	hat pattern do you see in the right columns as the numbers go down the column
2. Wł	nat are your conclusions about this experiment?
a)	
b)	
c)	

## **CARS AND RAMPS**

	500 cm											
	500 <b>c</b> m											
D												
I	400											
S	400 cm											
$\left \begin{array}{c}T\\ \end{array}\right $												
$\begin{vmatrix} A \\ \mathbf{N} \end{vmatrix}$												
A N C												
$\left  \begin{array}{c} \mathbf{C} \\ \mathbf{E} \end{array} \right $	300 cm											
T												
R												
l I	200 cm											
$\begin{vmatrix} A \\ V \end{vmatrix}$												
$ \mathbf{E} $												
L												
E	100 cm											
D												
	0 cm 15 cm 20 cm 25 cm 30 cm 35 cm 40 cm 45 cm 50 cm 55 cm 60 cm 65 cm 70 cm									70 cm		

15 cm 20 cm 25 cm 30 cm 35 cm 40 cm 45 cm 50 cm 55 cm 60 cm 65 cm 70 cm Height of the Ramp

## **Answers to the Questions**

1. What pattern do you see in the right columns as the numbers go down the column?

The car goes farther each time.

- 2. What are your conclusions about this experiment?
  - a) As the car rolls down the board, gravity is giving the car energy to roll on the floor.
  - b) The steeper the board becomes, gravity gives the car more energy to go farther each time
  - c) As the board gets closer to the direct pull of gravity, straight up and down, the faster and farther the car will go. The position of the board up and down is the fastest and farthest the car will go.