Name: _____ **Date:** _____



Build the freewheeling vehicle. Describe with a few words or draw a sketch how the motion is transmitted from the wheels to the motion pointer.

Which simple machines can you see?



Reset the pointer on the vehicle and place the vehicle on the STARTING POINT on the top of an inclined plane. Let it free to move, without pushing it. Note down with a brick the point it stopped and observe how the pointer moved on the vehicle. Repeat the measurement 3 times. What are your inferences?

	How far the vehicle moved	How much the pointer moved
1st trial		
2nd trial		
3rd trial		

Add the weight on the rear part of the vehicle and repeat the process.

	How far the vehicle moved	How much the pointer moved
1st trial		
2nd trial		
3rd trial		

What are your inferences?



Replace the small rear wheels with the large ones and let the vehicle move free from the STARTING POINT. Repeat the process 3 times.

	How far the vehicle moved	How much the pointer moved
1st trial		
2nd trial		
3rd trial		

Comparing with the precious vehicle, what are your inferences?

If you have time, you can suggest your own inquiry. You can also try to find out if the same outcomes occur when you push your car on an uphill.