Name_____ **Surface Texture** Date_____

Overview of experiment: We will be testing how different surface textures affect friction. We will experiment with 3 different surface textures, smooth wood, soft plastic (underside of carpet) and carpet. You will need to decide which surface will provide the least contact friction and allow your car to travel the furthest.

Feel all three surfaces!

Hypothesis: I believe that the _____ surface will allow for the

least amount of friction and allow my hot wheels car to travel the furthest,

because_____

_____

Controls: In order to only test the factor of _____,

I will need to control the following:

1)_____

2)_____

3)_____

4)_____

Testing the Hypothesis: In order to test my hypothesis I will need to:

1)_____

2)_____

3)_____

4)_____

Recording the Data

	Underside of Carpet Distance in cm	Smooth Wood Distance in cm	Carpet Distance in cm
Group 1			
Group 2			
Group 3			
Group 4			
Group 5			
Group 6			
Average Add Each Groups Totals and Divide by 6			

Conclusions

After taking an average of ___ runs, it is clear that the _____ surface provides the least amount of friction or resistance

Explain why your hypothesis was right or wrong and provide examples from your data.

_____

_____

_____

_____

Provide a picture of what each surface would look like (se your best guess) if they were magnified 10 times

Wood	Plastic	Carpet