Stopping Distances

Aim: To investigate the factors that affect Stopping Distances

Stopping Distance



Method:

Part 1: Reaction Time

- 1. Check your reaction time using the Reaction Test
- 2. Test yourself 3 times to get an average
- 3. You can set this as the reaction time in the simulation controls, or use another value

Part 2: Stopping Distance

- 1. Set a speed for your test leave all other values unchanged
- 2. Run the simulation and record Thinking Distance, Braking Distance and Overall Stopping Distance in your results table
- 3. Change the speed and run the simulation again
- 4. Make sure that at least 5 different speeds have been recorded

Prediction:			
What effect will c	hanging the speed have sing distance?	on the Thinking Distan	ce, Braking Distance
Results:			
Your average rea	action time:		
Speed (km/h)	Thinking Distance (m)	Braking Distance (m)	Stopping Distance (m)
Analysis:			
the Stopping Dis	to show your results. Plo stance (m) on the vertic Thinking and Braking I	al axis. Make the Stopp	
-	to Thinking Distance as		,
What happened	to Braking Distance as	the Speed increased?	

Extension:	
How would changing the Road Condition affect the Stopping D	