
<p>Here we go! The creation of a mechanically controlled car</p>		
<p>Test your car</p>		

<p>TEAM A2.</p>	
<p>Pupils Belgium</p>	<p>Pupils Sweden</p>
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1. ORIENTATION

1.1. Research questions:

- What will be the average speed of the mechanically controlled car?
- Which changing of parameters has the best result (fastest speed)?

1.2. Hypothesis

(here you only have to make a hypothesis about question 2)

Sweden: (no changes made)

Belgium: We think that the car will start to run fast with small wheels because it takes less time to turn a lap.

2. PREPARATION

On the other document (twinspace) you see the sketches and propulsion of the car.

2.1. Parameter that will be changed:

(here you describe what you will change to the car)

Sweden: (no changes made)

Belgium: Our change to our car is: we change the wheels from big to small but the car remains the same and the stretcher too.

2.2. Method:

2.2.1. Let your car drive and measure the distance that is possible.

2.2.2. Now, for the experiment, choose a distance that is shorter than the maximum distance. Make a sign on the floor on that distance.

2.2.3. Let the car drive and measure the time.


2.2.4. Calculate the average speed.

2.2.5. Repeat this three times.


2.2.6. Now, change a parameter and repeat the whole experiment.


3. DATA ANALYSIS and DISCUSSION

3.1. Observations and Measurements:

	DISTANCE (m)	TIME (s)	AVERAGE SPEED (m/s)
1	1,30	1,64	0,79
2	1,30	1,82	0,71
3	1,30	1,45	0,90

Changing of a parameter: *(describe what you change)*

	DISTANCE (m)	TIME (s)	AVERAGE SPEED (m/s)
1:	1,30	1,12	1,16
2:	1,30	1,12	1,16
3:	1,30	1,08	1,20

	DISTANCE (m)	TIME (s)	AVERAGE SPEED (m/s)
1	0	0	0
2	1.73	3.7799	0.4576
3			

4. REFLECTION

4.1. Conclusion: *(here you discuss when the car drives fastest with or without changing)*

Belgium: The car drives faster with smaller wheels.

4.2. Comparison of the results of the different countries: