

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

<h2>TEAM B2</h2>	
Pupils Belgium	Pupils Sweden
-yänka	- Ebba
-odile	- Natalia
-tibe	- Lovisa
	- Carl

## 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 with the harder elastic the car drives fastest.

## 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:** We will change the elastic for more power.

### 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	0.43	1.46	0.29
2	0.63	3.02	0.21
3	0.49	2.53	0.19

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

	DISTANCE (m)	TIME (s)	AVERAGE SPEED (m/s)
1	0.40	1.05	0.38
2	0.61	2.07	0.29
3	0.25	0.83	0.30

	DISTANCE (m)	TIME (s)	AVERAGE SPEED (m/s)
1	0	0	0
2	0.7	3	0.23
3	5.2	7	0.7

#### 4. REFLECTION

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

Belgium: The car drives fastest with the harder elastic because there is more power

**4.2. Comparison** of the results of the different countries:

The Swedish car is faster than the one from Belgium