DE BRON VRIJE ASO.SCHOOL	eTwinning	HAGALIDSKOLAN
Here we go! The creation of a mechanically controlled car		
Test your car		

TEAM B3	
Pupils Belgium	Pupils Sweden
-Lennert Lannoo -Sophie Vander Linden -Virginie Deprez	- Felicia - Marco - Madelen - John

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: With the block (weight) the car goes faster.

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: The extra block weight.

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 then 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	0.96	2.53	0.38
2	0.96	2.66	0.36
3	0.96	1.76	0.55

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

	DISTANCE (m)	TIME (s)	AVERAGE SPEED (m/s)
1	0.70	2.12	0.33
2	0.70	2.08	0.33
3	0.70	2.15	0.33

	DISTANCE (m)	TIME (s)	AVERAGE SPEED (m/s)
1	0	0	0
2	0.25	1	0.25
3	0.41	2	0.205

4. REFLECTION

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

Belgium: With the weight it doesn't goes as far as without a weight.

4.2. Comparison of the results of the different countries: The Belgium car goes faster and further than the Swedish car.