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

TEAM A8	
Pupils Belgium	Pupils Sweden
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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 go slower with the bigger bands

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 change on the car the weels in the front .

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	1.00	2.25	0.4 m/s
2	1.00	2.67	0.4 m/s
3	1.00	3.62	0.3 m/s

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

	DISTANCE (m)	TIME (s)	AVERAGE SPEED (m/s)
1	1.00	3.09	0.3 m/s
2	1.00	2.85	0.4 m/s
3	1.00	2.43	0.4 m/s

	DISTANCE (m)	TIME (s)	AVERAGE SPEED (m/s)
1			
2			
3			

4. REFLECTION

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

Belgium: the car drive a little bit faster with the smaller wheels but or test is not so good. because the balloon was not always the same size

There was always a slight difference in large so the size of the balloon makes a big difference.

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

We can’t compare because we didn’t have the results of the Swedish car.