

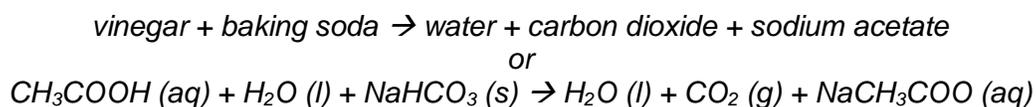
ASSIGNMENT
DMCU 1233 – CHEMISTRY
SEMESTER 1 2015/2016

CO₂ POWERED MINI VEHICLE

TASK

Develop a mini vehicles powered by CO₂ using **vinegar and baking soda**.
Our goal in this project to always use excess vinegar to help make sure all the baking soda is dissolved and reacted.

The chemical equation as below:



Vehicles must be made by using waste materials. The design's concept is based on your own creativity. However, **no vinegar is allowed to spill out from the container**.

All materials must be provided by students.

Prepare the poster and short presentation (3 minutes) for this project.

GROUP

16 group (4-5 students)

POSTER

Size: A3.

Design: free, but must include necessary items that required inside of the poster (Introduction, Problem Statement, Objective, Methodology, Results and Discussion, Conclusion and References).

VEHICLE SIZE

Length: min 25 cm to max 35 cm

Width: min 10 cm to max 20 cm

Height: min 10 cm to max 20 cm

MARKS

Vehicle design concept (Product) = 5 marks

Poster & Presentation = 5 marks

Race 1 + Race 2 = 5 marks

Total marks = 15

**Refer Table 1 for details*

Table 1

PRODUCT							
Creativity	1	2	3	4	5	5%	
Originality	1	2	3	4	5		
Design and concept	1	2	3	4	5		
Functionality	1	2	3	4	5		
POSTER							
Content arrangement	1	2	3	4	5	5%	
Attractive	1	2	3	4	5		
Informative	1	2	3	4	5		
PRESENTATION							
Informative	1	2	3	4	5		
Attractive	1	2	3	4	5		
Explanation and ability to answer question	1	2	3	4	5		
RACE 1 (longest distance in meter)							
Trial 1						5%	
Trial 2							
RACE 2 (longest distance within specific range: 1 meter)							
Trial 1							
Trial 2							

Rank	Race 1	Race 2
	Marks	Marks
Champion	10	10
2	8	8
3-4	6	6
5-8	4	4
9-16	2	2