

**ASSIGNMENT**  
**DMCU 1233 – CHEMISTRY**  
**SEMESTER 1 2013/2014**

# CO<sub>2</sub> POWERED MINI VEHICLE

## TASK

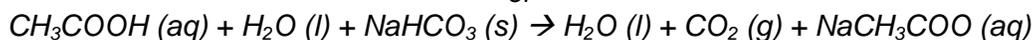
Develop a mini vehicles powered by CO<sub>2</sub> using vinegar and baking soda.

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:

*vinegar + baking soda → water + carbon dioxide + sodium acetate*

*or*



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.

## POSTER

Size: A3.

Design: free, but kindly refers to attachment for necessary items that required inside of the poster (Introduction, Problem Statement, Objective, Methodology, Results and Discussion, Conclusion and References).

## MARKS

Poster & Presentation = 5 marks

Vehicle design concept = 5 marks

Race = 5 marks

Total marks = 15