Rheology

- ***Objective/s:***

- ***Formula:*** *(Table)*

Formula Number	Ingredients	Quantities

- ***Method:***

(This section should contain any calculations related to prior experiment preparation, if none please write NA and close it)

➢ ***Results:***

- Liquid height: 14 cm
- Ball diameter: 25 mm
- Ball weight: …….

liquid	Time 1 (s)	Time 2 (s)	Time 3 (s)
Water			
20% glycerin			
40% glycerin			
propylene glycol			

➢ ***Calculations:***

- **Calculate ball volume (ml) :**

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.....

- **Calculate ball density (g/ml):**

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.....

- **Calculate viscosity of each liquid** (arrange your results in the following table):

liquid	Liquid density (g/ml)	Time 1 (sec)	Time 2 (sec)	Time 3 (sec)	Average flow time (sec)	Viscosity η (cp)
Water	1					
20% glycerin	1.05					
40% glycerin	1.1					
Propylene glycol	1.04					

- **Show an example of your calculation:**
  Viscosity (cp): (I choose …….. sample)

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➢ ***Discussion:***

(here add information about the following: falling ball method: the measurements method, factors affecting falling time and the relationship between these factor and falling time, relationship between falling time and viscosity).

➢ ***Conclusion:***

Order the liquid based on their viscosity from the lower viscosity to the higher viscosity

Experiment number: Continued from page number:

Group report

Experiment Report Workload Distribution Table

Coordinator for Current Experiment[1]:

Section[2]	Student Name[3]	Percentage of the Performed workload[4]

[1]Mention the name of the student/ group member who did arrange the work related to the current experiment group report/work management.
[2]Section or part of the group report
[3]Mention the name of student/the group member who took responsibility of the specified group report section
[4]Relative to the whole workload used to prepare the current group report.

Notes:

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