**Investigation- Heat of combustion of alcohols**

At the start of Wednesday’s 5th period you should have the following. Please write in a separate lined piece of paper the following.

After putting title “ Planning”. (See the sheet: Overview of experiment I have added in connect)

**Planning**

For outline the method you will follow (Do not write this sentence, just put the title Planning like I put above then under the title

Includes all steps that you will follow to conduct investigation in bulleted point form and a risk assessment. Use the template (table) given in the added overview of the experiment page. Construct a blank results table with title, titles for columns & rows to record your data. This should be completed at home before come to class on Thursday and show me on Thursday at the start of the lesson to receive 1.5 marks for preparation.

**Thursday**

* Conduct the experiment. Method is same as that you used on Wednesday period 4. However, for investigation you’re using 4 alcohols. Collect your data. Do calculations before Tuesday’s In-class test. You need to bring the data analysis sheet when you come to class on Tuesday. ( Please do not say that I left at home, you won’t get any mark )

Read the rest of instructions from the sheet added for Tuesday’s work which is the test day. Any questions please ask by sending an email or contact me at school during your break time.

On Tuesday, bring calculator, ruler, pencil, eraser, planning sheet and data analysis sheet.

Make sure you have revised balanced chemical equations for the combustion of all alcohols with states. You allowed to use improper fraction e.g. 5/2 O2 in your balanced equation. In your balanced equation Give ΔH, which represents the energy released or absorbed per mole of alcohol. Be sure to include the correct sign with your ΔH values.

Practice with your Wednesday’s Ethanol experiment to make sure you know how to write this in a proper way.

**Important matter:**

If you want to do test on Tuesday well, read the sheet on Chapter 10: Scientific Investigations from Nelson Chemistry (page: 398-418).