

Finding Mass without a Balance or Volume-Measuring Apparatus

Purpose(problem to be solved):

Find the mass of water in a flask using only the given equipment.

Equipment: watch, flask of water, hot plate, thermometer, ruler.

Hint: use maximum power for hot plate

In your report include:

- (1) **Procedure** Write the procedure without any recorded data, mathematical steps or discussion of formulas. Only write what you actually performed in the lab, and make sure you mention all the equipment. (3 marks)
- (2) **Data and observations** Record your data in a table. (2 marks)
- (3) **Analysis** Explain your reasoning and show how you arrived at your answer mathematically. (4 marks)
- (4) **Conclusion** In one or two sentences, mention the answer to your problem and what equipment and method(very briefly!---the details will be found in your analysis) were used to solve the problem (1 mark)