

Name:

Surname:

## Report of experiment 1

### Introduction

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### The objective of the experiment

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### Materials and Chemicals

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### Method of work

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If the results of the experiment are recorded in the table answer the following questions

Mass of Cold Water $m_1$ (g)	Mass of Hot Water $m_2$ (g)	Temperature of Cold Water $T_1$ (K)	Temperature of Hot Water $T_2$ (K)	Equilibrium Temperature $T_{f(\text{exp})}$ (K)
150.08	150.69	297.65	333.5	314.55

**1. Calculate the calorimeter's thermal capacity ( $K_{cal}$ ).**

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**2. If the mass of the calorimeter is 2635 g, calculate the specific heat of the calorimeter ( $c_{cal}$ ).**

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**3. Determine the quantity of heat energy lost in the system.**

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**4. Determine the quantity of heat energy gained in the system.**

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**5. Conclusion**

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