**Log Book – Hot Drinks Cooling**

**Aim:**

*What you want to achieve in the experiment?*

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**Independent variable:** *(change)* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Dependent variable:** *(measure)* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Controlled variable:** *(same)* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Hypothesis:**

If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ then\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Equipment:**

* Kettle
* 2x beakers
* Tea
* Coffee
* 2x thermometer
* stopwatch

**Method**

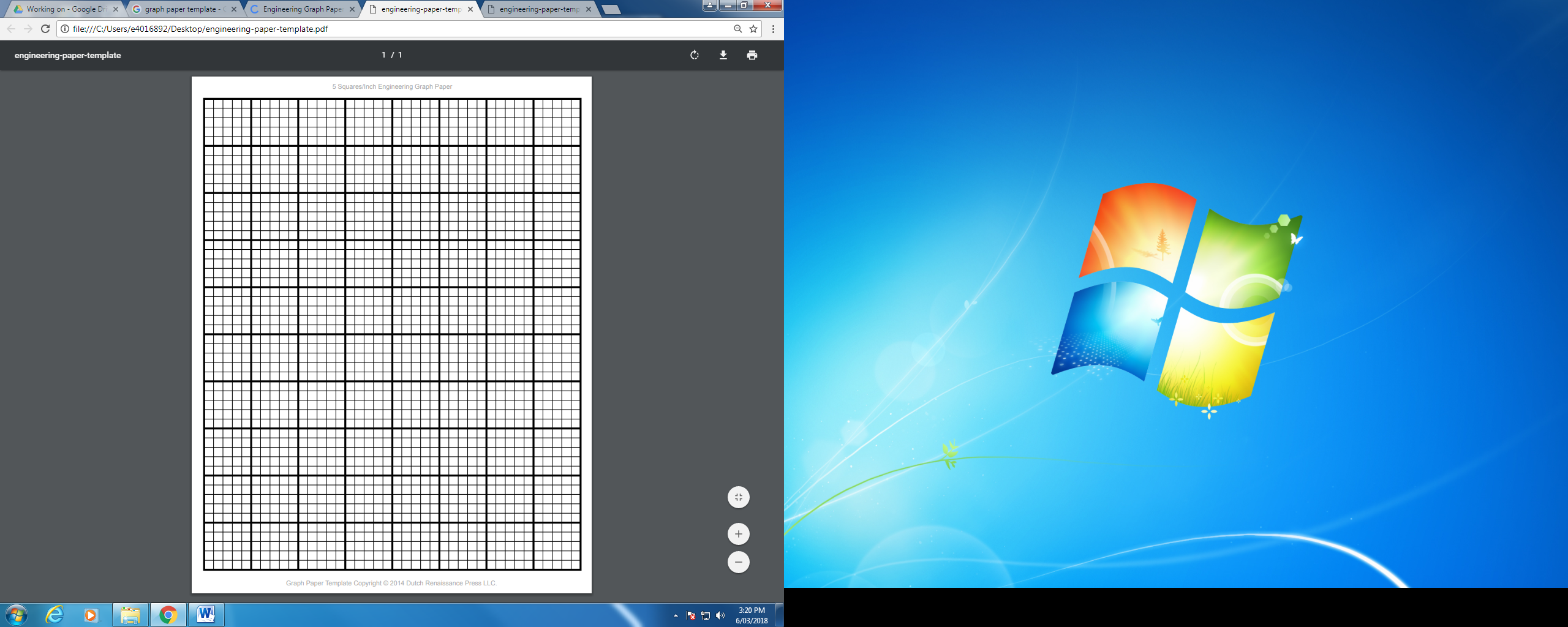
1. Boil Kettle and make drinks using coffee and tea
2. Measure initial temperature of both drinks
3. Start timer and record results every minute for 10 minutes for both drinks

**Table:**

*In the space below please construct a table of your results.*

|  |  |  |
| --- | --- | --- |
| **Time(min)** | **Temperature (0 C)** | |
|  |  |
| 0  1  2 |  |  |

**Graph**



**Discussion**

*Which drink cooled the fastest? How do you know?*

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*Which drink cooled the slowest? How do you know?*

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*Was your hypothesis supported?*

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*What data from your graph/table helped you decide if your hypothesis was supported or not?*

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**Evaluation**

*List two problems you encountered when conducting your experiment.*

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*Give two improvements you could make to the experiment.*

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**Total: /18**