Fast and Slow Evaporation Laboratory Assessment

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Aim:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *1 mark*

**Prediction:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *1 mark*

**Hypothesis:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *1 mark*

**Independent Variable**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *1 mark*

**Dependent Variable**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *1 mark*

**Controlled Variable**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *1 mark*

**Equipment:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *1 mark*

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**Method:** Convert the method from past tense to present tense.

1. I collected about 50mL of copper sulphate solution in a beaker.

\_\_\_\_*1 mark. Needs capital letter and correct tense. ½ mark only if missing.*

2. I set up an evaporating basin over a tripod, Bunsen and clay pipe triangle.

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3. I poured copper sulphate into the evaporating basin until it was about half full.

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4. I heated the solution with a hot flame, watching carefully that it didn’t ‘spit’.

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5. When it did spit I carefully pulled the Bunsen out for a short while.

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6. When the liquid was nearly all gone I turned off the heat and left it to evaporate.

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7. I allowed the basin to cool for a few minutes.

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8. While the basin cooled I poured some of the remaining copper sulphate solution into a watch glass and left it to evaporate slowly on the window sill.

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9. After about a week I recorded my observations.

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**Safety:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  *1 mark*

**Results:**

*2 marks for diagram. Needs to be neat and precise or loses a mark.*

*1 mark for notes.*

**Conclusion:** \_\_\_\_\_\_\_\_ *5 marks at your discretion. Should try to explain why.*

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**Difficulties:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  *1 mark*

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**Improvements:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *1mark*

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TOTAL: 30 marks