

Experiment : Suitable Temperature

Plan and conduct an experiment to test your hypothesis. Write a report of the experiment based on the format shown below.

|   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Aim                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2 | Problem Statement       | Does suitable temperature affect the condition of the milk?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3 | Hypothesis              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|   | Variables               | a. manipulated:<br>b. respond:<br>c. constant:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5 | Apparatus and materials | Bunsen burner, two bottles with caps, thermal flask, beaker, fresh milk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6 | Steps                   | <div>1. Prepare three glasses that are filled with the same amount of fresh milk.</div> <div>2. Pour the milk from the first glass into a bottle labelled A. Close the bottle and keep it in a refrigerator.</div> <div>3. Pour the milk from the second glass into a bottle labelled B. Close the bottle and keep it at room temperature.</div> <div>4. Pour the milk from the third glass into a beaker. Boil the milk using the Bunsen burner. Then, pour it into the thermal flask. Close the thermal flask and leave it on the table.</div> <div>5. Observe the condition of the milk daily for three days.</div> <div>6. Record your observation in a table.</div> |
|   | Observation             | <div></div> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| 7      | Data                  | <table border="1"> <thead> <tr> <th>Bottle</th> <th>Condition of the milk</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> | Bottle | Condition of the milk |  |  |  |  |  |  |
|--------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------|--|--|--|--|--|--|
| Bottle | Condition of the milk |                                                                                                                                                                                                                   |        |                       |  |  |  |  |  |  |
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|        |                       |                                                                                                                                                                                                                   |        |                       |  |  |  |  |  |  |
| 8      | Interpreting Data     |                                                                                                                                                                                                                   |        |                       |  |  |  |  |  |  |
| 9      | Conclusion            | The hypothesis is (accepted/ not accepted).<br>State the conclusion :                                                                                                                                             |        |                       |  |  |  |  |  |  |

Student  
achievement

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Name of Student

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Date of submission

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Name of teacher

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