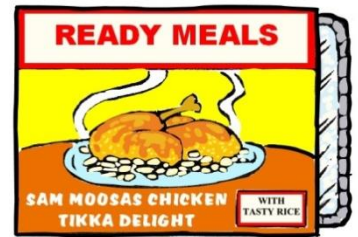


WORKSHEET B

Scientific Investigation into Food Preservation

Teachers should use their own discretion when marking this worksheet.



Instructions:

For this investigation you will need:

- 3 slices of bread;
- 3 different types of containers in which to store the bread.

You will be asked to do one of the following:

- place the 3 slices of bread into 3 different containers;
- observe what happens to the bread over 5 days;
- record your observations in the Observation Record table on the next page.

As part of this experiment, answer the questions below.

What question did you want to answer?	<i>What will happen to the bread that I placed in plastic bags and stored for 5 days in (1) a dark place; (2) a cool place and (3) in sunlight?</i>
What equipment did you use?	<i>Bread X 3 slices Plastic bags X 3 Places of storage</i> <ul style="list-style-type: none"> • <i>my teacher's cupboard (a dark place)</i> • <i>the store room at the back of the class (a cool place)</i> • <i>window sill in my classroom (sunlight)</i>
What method did you use? What did you do?	<i>I cut three slices of bread. I sprinkled a few drops of water onto each slice of bread. I placed each slice of bread into a plastic bag. I sealed the plastic bag as tightly as possible using staples. I placed the plastic bags into the following places:</i> <ul style="list-style-type: none"> • <i>my teacher's cupboard (a dark place)</i> • <i>the store room at the back of the class (a cool place)</i> • <i>window sill in my classroom (sunlight)</i> <i>I observed and recorded what happened to the bread over 5 days.</i>

<p>What predictions did you have?</p>	<p><i>That the bread in all the plastic bags would still be edible after three days.</i></p> <p><i>That after 5 days the bread that I placed in the:</i></p> <ul style="list-style-type: none">• <i>dark place would become hard and inedible;</i>• <i>cool room would become green and mouldy and inedible;</i>• <i>sunlight would become green and mouldy and inedible.</i>
<p>What was the result of your experiment? What happened and why?</p>	<p><i>I learnt that the bread was still edible after <u>two</u> days.</i></p> <p><i>By the third day the bread was no longer suitable to eat.</i></p> <p><i>After 5 days the bread that I placed in the:</i></p> <ul style="list-style-type: none">• <i>dark place</i><ul style="list-style-type: none">○ <i>felt soft and</i>○ <i>looked mouldy and</i>○ <i>was inedible;</i>• <i>cool room</i><ul style="list-style-type: none">○ <i>felt soft</i>○ <i>did not look mouldy</i>○ <i>was inedible;</i>• <i>sunlight</i><ul style="list-style-type: none">○ <i>felt dried out and hard</i>○ <i>did not look mouldy</i>○ <i>was inedible.</i>

Observation Record

Teachers should use their own discretion when marking this observation table.

Write down your observations here: What does each sample of bread look like and feel like?

Date	Observation	Sample A Dark place:	Sample B Cool place:	Sample C Sunlight:
Day 1	Look			
	Feel			
Day 2	Look			
	Feel			
Day 3	Look			
	Feel			
Day 4	Look			
	Feel			
Day 5	Look			
	Feel			