Year 12 General Human Biology

Pathogens

Task 5: **Kitchen hygiene**



Logbook

General

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

Teacher: Mrs Cunningham

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***CHECK POINTS***

☐ Week 2 Research topic and construct question for investigation

☐ Week 2 Design procedure. Submit draft method\*

☐ Week 2-4 Conduct investigation

☐ Week 5 Analyse data, draw conclusions, and evaluate evidence

☐ Week 5 Submit draft written report

☐ Week 6 Poster presentation\*

☐ Week 6 Submit final written report

\* The items marked with an asterisk require only one group document to be submitted.

**Authentication strategies:**

The teacher will:

* provide class time for task completion.
* monitor progress at specified check points.
* collect and annotate drafts.
* monitor student contributions to the group task.

The student will:

* maintain a logbook to document their progress.
* complete self and peer assessments of contributions to the group task
* acknowledge all sources.

***Part A: Background Research***

Chosen type of kitchen being studied:

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Specific information about chosen kitchen being studied:

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Hygiene practices for kitchen being studied:

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Hygiene practice recommendations for chosen kitchen being studied:

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References for the research conducted:

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Additional Research:

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References for the additional research:

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Investigation aim:

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Hypothesis (if/then statement):

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Independent variable (what are you changing):

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Dependant variable (what are you measuring):

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Control variables (what are you keeping the same):

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Why do control variables need to stay the same?

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Additional Research:

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References for the additional investigation research:

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***Part B: Planning and conducting the investigation.***

Planning your investigation notes:

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How are you performing this investigation?

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What do you need to perform this investigation?

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How will you collect your data?

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How will you record your data?

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What are some safety considerations you need to keep in mind during this investigation?

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What are some safety precautions you can take?

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What equipment do you need to be careful of?

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RISK ASSESSMENT

Identify possible hazards.

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Materials:

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Method / Procedure:

Step 1:

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Step 2:

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**You continue….**

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Create a results table for all your observations and raw data:

Draw any observations, images, or diagrams here:

***Part C: Data processing and analysis***

Graph your results:

Use a title

Even scale on x and y axis

Label your x and y axis

Correct units of measurement

Plot your data accurately

Use a key (if required)

Use averages of data

Use the graph paper below. If you make a mistake, get graph paper from your teacher and staple onto this page. A graph paper with black lines

Description automatically generated

What patterns can you see in your data?

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What relationships can you see between your independent and dependent variables?

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What else does your data tell you?

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Find supporting scientific evidence to explain your findings:

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Was your hypothesis supported or rejected?

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Was your experiment accurate, reliable, and valid?

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Why/Why not?

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What improvements/changes would you make for next time?

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Your write-up should be written in third person (without using inclusive language such as I, we, our, etc.) and written in past tense.

Example:

**Correct -** 200mL of distilled water was poured into a 500 mL beaker.

Pour 200mL water in a beaker. (direction/command)

**Incorrect -** I poured 200mL of distilled water in a beaker. (First person)

|  |
| --- |
| * **Title** – Choose a name for the experiment. Your title should be informative and describe the experiment. |
| * **Aim** – What is it that you are trying to find out/ What is the purpose of your experiment? Provide extra details not included in your title. |
| * **Hypothesis –** Includes independent and dependent variables and shows the relationship between them. |
| * **Equipment** – this should be a vertical list (like a shopping list) of all the equipment you need to carry out this experiment. |
| **Variables** –   * **Independent Variable:** State what you will change. * **Dependent Variable:** State what you will measure. * **Control Variables:** List at least three things you will keep the same to make it a fair test. Make sure you include all relevant details. Control variables must be more than one word. You must state why they must be controlled. |
| * **Method** – The numbered steps you will follow to complete this experiment. Written as a vertical list (like a recipe). |
| * **Diagram** – This helps to explain your method. Must be 2D, labelled and completed in pencil, using a ruler. |
| **Results** –   * **Table** – Include what you measured (dependent variable) and observations that you have made. Needs a descriptive title and clear column headings with the units used. * **Graph** – Draw a graph to help explain your results visually. Your graph should have descriptive titles and clearly labelled axis with units. Dependent variable should always be on the Y axis and independent variable on the X axis (unless measuring over time then time should be on the X axis). |
| * **Conclusion** –State whether your results support or don’t support your hypothesis. * **Discussion** - Discuss what you have found out in this experiment by using your own results and try to explain scientifically why you got these results. |
| * **Evaluation** – State things that went wrong or problems that occurred during the experiment. For each problem suggest ways to improve the experiment. * **Referencing** – Make sure to correctly add all references throughout your report, and a reference page at the end.   Try using a website like https://www.mybib.com/tools/apa-citation-generator |

**SELF ASSESSMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment Criteria** | **Description** | **Self-Assessment Score (1-5)** | **Comments and Feedback** |
| **Research and Data Collection** | Ability to gather relevant information, conduct experiments, and collect data effectively. |  |  |
| **Analysis and understanding** | Capability to analyze collected data accurately and grasp complex concepts related to the investigation. |  |  |
| **Teamwork and Collaboration** | Effectiveness in working with the team, sharing responsibilities, and supporting others. |  |  |
| **Problem Solving and Innovation** | Creativity in addressing challenges and ability to propose innovative solutions. |  |  |
| **Communication and Presentation** | Clarity and effectiveness in communicating findings and presenting results. |  |  |

### **Scoring Guide**

* **1 (Poor)**: Significantly below expectations; requires substantial improvement.
* **2 (Fair)**: Below expectations; needs noticeable improvement.
* **3 (Good)**: Meets basic expectations; satisfactory performance.
* **4 (Very Good)**: Exceeds expectations; very good performance with minor areas for improvement.
* **5 (Excellent)**: Far exceeds expectations; outstanding performance.

### **Instructions for Use:**

1. **Individual Self-Assessment**: Each team member should independently rate their own contributions in each category, providing scores and thoughtful comments on their performance and areas for growth.

**PEER ASSESSMENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment Criteria** | **Description** | **Peer Assessment Score (1-5)** | **Comments and Feedback** |
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### **Peer Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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### **Instructions for Use:**

1. **Peer Assessment**: Team members then anonymously rate each other's contributions using the same criteria and scoring guide, offering constructive feedback in the comments section

**PEER ASSESSMENTS**

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**PEER ASSESSMENTS**

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### **Peer Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**PEER ASSESSMENTS**

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A screenshot of a project

Description automatically generated***Part E: Poster Presentation***