



ORANGE HIGH SCHOOL

ASSESSMENT TASK

Year 8 Science Semester 1, 2020

Assessment Task

The aim of this assessment is to plan and conduct a first-hand practical investigation on the effect of exercise on the body. You have to show the skills that you have learnt in class when conducting a practical investigation.

In class you would have gained some background knowledge of the body systems. You will create a proper scientific investigation to link a body system to exercise.

Outcomes Assessed

- identifies questions and problems that can be tested or researched and makes predictions based on scientific knowledge SC4-4WS
- collaboratively and individually produces a plan to investigate questions and problems SC4-5WS
- processes and analyses data from a first-hand investigation and secondary sources to identify trends, patterns and relationships, and draw conclusions SC4-7WS
- presents science ideas, findings and information to a given audience using appropriate scientific language, text types and representations SC4-9WS

Use the following scaffold to guide you through the steps required to complete a proper scientific investigation.

Student Name: _____

Teacher: _____

Title: Write a title that tells the reader what you are doing

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Aim: What are you trying to achieve in this investigation? Try to include the 2 things that you are going to measure.

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Literature Review (Optional, you don't have to do this). (Extension activity for 5 extra marks)

Research 5 key points that relate to the investigation that you are doing. List the source of your information.

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Abstract: An abstract is a summary of the investigation that you have completed. This should be done after you have finished the investigation.

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Results: Create a table and a graph to show your results in a visual format.

Discussion:

Describe the trends in your graph. What was the shape of the line of best fit?

How did you make sure that your measurements were accurate? Did you make a mistake or could you have done it better? Is there a machine that could measure the body function, if so describe the machine

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How did you ensure that your practical was reliable? Did you or someone else repeat the practical and get similar results. Describe the similarities in the results.

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Did you make any errors in your measurement or calculations? What things could you have done to make the investigation better?

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Why is it important that people understand the results that you obtained?

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Conclusion: How did the results relate to your hypothesis?

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Year 8 Assessment Marking Rubric

| | Extensive A | Thorough B | Sound C | Basic D | Elementary E | No attempt |
|--|--|--|--|---|---|------------|
| Title | | | Indicates information about the investigation | Some relevance to the investigation | A title was attempted | |
| | | | 3 | 2 | 1 | 0 |
| Aim | | | 2 parts of the investigation included in scientific terms | 2 parts included but in general terms | Have written an aim | |
| | | | 3 | 2 | 1 | 0 |
| Literature review (optional for bonus marks) | Literature review completed and extensively examine the investigation | Literature review has a thorough understanding of the investigation | Written in general terms and related to the topic | A brief description of something related to the topic | An attempt at summarising the information is made | |
| | 5 | 4 | 3 | 2 | 1 | 0 |
| Abstract (optional for bonus marks) | Abstract uses the information gathered to make a summary of their investigation | Abstract has summarised some of the investigation | Restated what they found out | Attempts to write about their experiment | Write a simple statement about the investigation but not related to their results | |
| | 5 | 4 | 3 | 2 | 1 | 0 |
| Hypothesis | | | is an IF... then statement, links IV and DV using scientific language | links IV and DV using some scientific language | Some errors may be present, IV or DV is mentioned | |
| | | | 3 | 2 | 1 | 0 |
| Method | Method contains all five aspects below: Third person Past tense Includes repetition Logically sequenced steps scientific language | Method contains at least four of the aspects; no tense errors or use of "I, we" | Method contains at least three of the aspects one or two tense errors or use of "I, we" | Method contains at least two of the aspects | Method is attempted, many errors, at least one of the five aspects is present. | |
| | 5 | 4 | 3 | 2 | 1 | 0 |

