JOHN EDMONDSON HIGH SCHOOL
Assessment Notification

Faculty: Science  Course: Investigating Science  Year: 12

Assessment Task: Depth Study - Evaluating the Scientific Method

Assessment Weighting: 20%  Due: Term 4  Week 9  Date: 10/12/2019

Task Type: Hand in Task ☒  In Class Task ☐  Practical Task ☐

Outcomes assessed (NESA)
› Develops and evaluates questions and hypotheses for scientific investigation INS11/12-1
› Designs and evaluates investigations in order to obtain primary and secondary data and information INS11/12-2
› Communicates scientific understanding using suitable language and terminology for a specific audience or purpose INS11/12-7
› develops and evaluates the process of undertaking scientific investigations INS12-12

Task Description/Overview
Secondary Research Investigation:

Students will conduct secondary research on the methodology used by ONE of the following scientists:

- Jane Goodall's study of chimpanzees.
- John Snow's investigation of the cause of the Cholera outbreak of 1831-1854.
- Robert Koch's investigation of the cause of Anthrax.

Total: 25 marks

Detailed Assessment Task Description

Undertake a secondary research investigation to analyse and evaluate the methodology used by ONE of the Scientists below and the first hand investigation that they conducted.

- Jane Goodall’s study of chimpanzees.
- John Snow’s investigation of the cause of the Cholera outbreak of 1831-1854
- Robert Koch’s investigation of the cause of Anthrax

You will be submitting a 500-600 word essay that covers the following points:
• Identify the scientist/s.
• State the purpose of their investigation and explore the reasons behind their decision.
• Explain and evaluate the methodologies used in this investigation.
• Identify and evaluate the type of data collected in terms of its validity, accuracy and reliability.
• Explore how their findings impacted the fields of science involved and whether it initiated further investigation.
The attached scaffold can be used to organize your investigation and structure your essay.

Your essay must be 500-600 words (plus/minus 10%). Marks will be deducted if your words count is under/over the word limit. You need to use size 12 font and it must be double spaced.

You must submit a bibliography with your essay (minimum 3 sources, referenced using the school's referencing method).

You will be required to submit a digital copy and a paper copy by the due date. The digital copy needs to be emailed to the following email:

alexandra.gale4@det.nsw.edu.au

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<th>Assessment Criteria</th>
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<tr>
<td><strong>Grade</strong></td>
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<td>Outstanding (O)</td>
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<td>Basic (B)</td>
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**Satisfactory completion of courses**

A course has been satisfactorily completed, when the student has:
- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all of the course outcomes