



# JOHN EDMONDSON HIGH SCHOOL

## Assessment Notification

Faculty: Science Course: HSC Biology Year: 12

Assessment Task: Infectious Disease (Practical Investigation and in class component)

Assessment Weighting: 30% Due: Term 2 Week 8 Date: 13/06/2023

Task Type: Hand in Task  In Class Task  Practical Task

### Outcomes assessed (NESA)

BIO12-1 develops and evaluates questions and hypotheses for scientific investigation

BIO12-2 designs and evaluates investigations in order to obtain primary and secondary data and information

BIO12-3 conducts investigations to collect valid and reliable primary and secondary data and information

BIO12-4 selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media

BIO12-14 analyses infectious disease in terms of cause, transmission, management and the organism's response, including the human immune system

Module 7 Infectious Diseases:

Inquiry Question 1

- describe a variety of infectious diseases caused by pathogens, including microorganisms, macroorganisms and non-cellular pathogens, and collect primary and secondary-sourced data and information relating to disease transmission, including: (ACSBL097, ACSBL098, ACSBL116)
  - design and conduct a practical investigation relating to the microbial testing of water or food samples
  - investigate modes of transmission of infectious diseases, including direct contact, indirect contact and vector transmission
- investigate the work of Robert Koch and Louis Pasteur, to explain the causes and transmission of infectious diseases, including:
  - Pasteur's experiments on microbial contamination

## **Task Description/Overview**

This Assessment will take place in D03 and D04 in period 2 and 3

- Miss Luc's class will go to D03 after recess.
- Ms Inverarity's class will go to D04 after recess.

This assessment task is based on Module 7 Infectious Diseases, Inquiry Question 1, including agar plate experiment.

### **Part A: Practical Task**

Students will be conducting an experiment in groups of three and answering questions based on the experiment.

### **Part B: In Class Written Task**

Individually you will be required to answer questions based on knowledge and practical investigations, as well as, problem solving, processing data and graphing skills.

If you are sick/late on the day of the assessment, an illness and misadventure form needs to be submitted to Mrs Violi.

## **Detailed Assessment Task Description**

Total Marks (45 Marks)

In Part A: Practical Task (10 marks): 30 minutes

Students will be conducting an experiment in groups of three and answering questions based on the experiment.

In Part B: In-Class Task (35 marks): 60 minutes

Individually you will be required to answer questions based on knowledge and practical investigations, as well as, problem solving, processing data and graphing skills.

If you are sick/late on the day of the assessment, an illness and misadventure form needs to be submitted to Mrs Violi.

Please bring the following equipment as it will be required to complete the assessment:

- Blue or black pen
- Ruler
- Lead pencil
- Calculator
- Rubber

<b>Assessment Criteria</b>		
<b>Grade</b>	<b>Description</b>	<b>Mark Range</b>
<b>Outstanding (O)</b>	The student has an extensive knowledge and understanding of the content and can readily apply this knowledge. In addition, the student has achieved a very high level of competence in the processes and skills and can apply these skills to new situations.	<b>84.5-100</b>
<b>High (H)</b>	The student has a thorough knowledge and understanding of the content and a high level of competence in the processes and skills. In addition, the student is able to apply this knowledge and these skills to most situations	<b>69.5-84</b>
<b>Sound (S)</b>	The student has a sound knowledge and understanding of the content and has achieved a good level of competence in the processes and skills	<b>49.5-69</b>
<b>Basic (B)</b>	The student has a basic knowledge and understanding of the content and has achieved a basic level of competence in the processes and skills.	<b>27.5-49</b>
<b>Limited (L)</b>	The student has an elementary knowledge and understanding in a few areas of the content and still requires further work to achieve competence in the processes and skills	<b>0-27</b>

### **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