



Mount Annan High School Assessment Notification

Subject: Year 12 Biology	
Weighting: 20%	Date: PART 1: Week 4 Friday 22 nd May 2020 PART 2: Week 5 Friday 29 th May 2020
Task n°: 3	Type of Task: First Hand Investigation

Components of Task

1. BIO12-2 and BIO12-3 Planning and Conducting Investigations

Students will need to design an investigation that models Louis Pasteur's swan neck flask experiment.

Students will be given access to:

- 1 x safety glasses
- 2 x conical flasks
- 1 x box of matches
- 1 x spatula
- 1 x tripod
- 1 x wire gauze
- 1 x Bunsen burner
- 1 x measuring cylinder
- 1 x squeeze bottle containing methylated spirits.
- 1 x wads of cotton wool
- 1x piece of aluminium foil
- 1x piece of glad wrap
- 1x bonox (nutrient material)
- 400mL distilled water
- 1x marking pen

Students are to submit via google classroom their individual method for Louis Pasteur's experiment by the 21st May, so that the safety of their individual method can be checked prior to the setting up of the experiment.

Students will conduct their investigation individually in the laboratory on 22nd May and leave for one week.

2. BIO12-4 Processing data and information

On Friday 29/05/20 the results from your model will be observed and recorded.

3. BIO12-5 and BIO12-14 Processing data and information

On Friday 29/05/20, Students will then return to the class room and work individually to answer questions based on the data they have collected and the observations and procedures.

Task duration: 2 x 50 minutes

Mark Allocation: As shown on question booklet

Total = 30 marks

Intended outcomes:

BIO12-1	Questioning and predicting develops and evaluates questions and hypotheses for scientific investigation
BIO12-2	Planning investigations designs and evaluates investigations in order to obtain primary and secondary data and information
BIO12-3	Conducting investigations conducts investigations to collect valid and reliable primary and secondary data and information
BIO12-4	Processing data and information 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

HT signature: _____

Setter signature: _____

NB: ZERO MARK FOR PLAGIARISED WORK OR WORK NOT ATTEMPTED/OR HANDED IN LATE WITHOUT EXTENSION TIME GIVEN BY HEAD TEACHER. A DOCTORS CERTIFICATE MUST BE PRESENTED FOR ABSENCES AND THE TASK COMPLETED UPON THE DAY OF RETURN FROM ILLNESS. WRITTEN TASKS MUST BE SUBMITTED ON THE DUE DATE ON PAPER (NOT EMAILED). STUDENTS MUST BEHAVE APPROPRIATELY AND REMAIN ON TASK AND IF DEEMED TO BE NOT MAKING A SERIOUS ATTEMPT THEY WILL BE REMOVED FROM THE TASK AND RECEIVE A ZERO MARK.

MARKING CRITERIA:

Outcome	A Student can	Marks
BIO12-1 Questioning and predicting develops and evaluates questions and hypotheses for scientific investigation	Identify the question and hypothesis used to develop Pasteur's investigation	3
BIO12-2 Planning investigations designs and evaluates investigations in order to obtain primary and secondary data and information	Creates valid experimental design. Evaluates experimental design.	8
BIO12-3 Conducting investigations conducts investigations to collect valid and reliable primary and secondary data and information	Conducts investigation to produce observable results. Identifies risks and methods to minimise	9
BIO12-4 Processing data and information selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media	Present observed results Uses cause and effect relationship to explain results	6
BIO12-14 analyses infectious disease in terms of cause, transmission, management and the organism's response, including the human immune system	Links method and results to our understanding of human disease.	4
	Total	30

FEEDBACK

A detailed copy of mark allocation based on criteria and sample answers.