



MOUNT ANNAN HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

FACULTY	Science	COURSE	Physics	YEAR	11
TASK NUMBER	2	TASK NAME	Depth Study		
TASK WEIGHT	30%	MARKS AWARDED	40		
DATE OF NOTIFICATION	Term 2 - Week 4				
DUE DATE	Thurs 20 th June, 2024 (Term 2, Week 8)				

TASK DESCRIPTION / INSTRUCTIONS

- **PART A – Depth Study Approval form**

Students will need to explain the depth study of their choice **relevant to their field of study** to be **approved** by their teacher. This will be completed and uploaded to Google class.

- **PART B – Individual Depth Study – Competency Based Task** *(Must be completed to a satisfactory standard)*

Students will need to complete a depth study of their choice **relevant to their field of study** that has been discussed and **approved** by their teacher. *Students will receive a booklet to guide through the methodology and planning for the Depth Study.*

Students will submit their completed Individual Depth Study submitted in their chosen form of Communication. **Report, PowerPoint, Video, Model etc – electronic forms of communication delivery must be submitted on the Google classroom.**

- **PART C – In class task (Depth Study reflection)** - 50 minutes.

Students will work individually in the classroom, addressing the questions pertaining to working science skills and their Individual Depth Study. Students can use their Depth Study as a resource for this section of the task. This will then be collected at the end of the task for marking.

Assessment Policy- This is a brief outline, you must check your assessment booklet for further details. Assessment task must be submitted on the due date.

- **Failure to complete an assessment task will result in a zero mark.**
- Late submission of assessment items **will be awarded zero** unless there are very extenuating circumstances (Doctor's Certificate, etc.)
- Students found guilty of malpractice will be awarded a zero mark. If a piece of work is incomplete at the time of submission, it should be submitted as is, and you will be given a mark on what has been completed.
- See your teacher or the Head Teacher of Science on the **first day you return** back to school

HOW DOES THIS TASK LINK TO MY LEARNING

Working Scientifically skills are at the core of conducting practical and secondary-sourced investigations in Science. Students are challenged to further develop their understanding of Working Scientifically as a group of dynamic and interdependent processes that are applied in each scientific investigation in a way that is appropriate and determined by the activity.



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OUTCOMES

Students will be demonstrating their understanding of the following outcomes.

Skills (Working Scientifically): Both of the following:

- **PH11/12-1: Questioning and predicting**
Develops and evaluates questions and hypotheses for scientific investigation.
- **PH11/12-2: Planning investigations**
Designs and evaluates investigations in order to obtain primary and secondary data and information.
- **PH11/12-7: Communicating**
Communicates scientific understanding using suitable language and terminology for a specific audience or purpose.

And any **TWO (2)** of the following:

- **PH11/12-3: Conducting investigations**
Conducts investigations to collect valid and reliable primary and secondary data and information.
- **PH11/12-4: Processing data and information**
Selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media.
- **PH11/12-5: Analysing data and information**
Analyses and evaluates primary and secondary data and information.
- **PH11/12-6: Problem solving**
Solves scientific problems using primary and secondary data, critical thinking skills and scientific processes.

Knowledge and understanding: And **ONE (1)** of the following:

- **PH11-8** Describes and analyses motion in terms of scalar and vector quantities in two dimensions and makes quantitative measurements and calculations for distance, displacement, speed velocity and acceleration.
- **PH11-9** Describes and explains events in terms of Newton's Laws of Motion, the law of conservation of momentum and the law of conservation of energy.
- **PH11-10** Explains and analyses waves and the transfer of energy by sound, light and thermodynamic principles
- **PH11-11** Explains and quantitatively analyses electric fields, circuitry and magnetism



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A student in this band is able to demonstrate:	Marks/Grade
<p>Comprehensive <i>Depth Study</i> including aspects from the following;</p> <ul style="list-style-type: none"> ● a well-developed inquiry question and hypothesis, ● an in-depth outline of the steps taken to complete the Depth Study, ● accurately presented qualitative and quantitative data collected, ● accurate scientific methodology used to collect the data, ● evaluation of the quality of the data used. ● Solves scientific problems using primary and secondary data, critical thinking skills and scientific processes. 	40 – 32 A
<p>Thorough <i>Depth Study</i> including aspects from the following <i>with inaccuracies</i>;</p> <ul style="list-style-type: none"> ● an inquiry question and hypothesis, ● an effective outline of the steps taken to complete the Depth Study, ● all qualitative and quantitative data collected, ● scientific methodology used to collect the data, ● discussion of the quality of the data used. ● Solves scientific problems using primary OR secondary data, critical thinking skills and scientific processes. 	31 – 24 B
<p>Sound <i>Depth Study</i> including aspects from the following <i>with inaccuracies and errors</i>;</p> <ul style="list-style-type: none"> ● an inquiry question and hypothesis, ● an outline of the steps taken to complete the Depth Study, ● qualitative and quantitative data displayed, ● a procedure used to collect data, ● explains of the quality of the data used. ● Solves scientific problems using data, critical thinking skills or scientific processes. 	23 – 16 C
<p>Basic <i>Depth Study</i> including aspects from the following <i>with significant errors</i>;</p> <ul style="list-style-type: none"> ● A question or hypothesis presented, ● state steps taken to complete the Depth Study, ● qualitative or quantitative data shown, ● a procedure used to collect elements of data, ● describes the data used. ● Incorrectly solves scientific problems, critical thinking skills or scientific processes. 	15- 8 D
<p>Limited <i>Depth Study</i> including aspects from the following <i>with significant errors</i>;</p> <ul style="list-style-type: none"> ● A question presented with minor relationship, ● state steps taken to complete the Depth Study, ● qualitative or quantitative data shown, ● a procedure used to collect the data, ● Identifies some data. ● Incorrectly approaches scientific problems, critical thinking skills or scientific processes. 	7 – 1 E
Non Attempt – Non Submission – Non Serious Attempt	0