



ASSESSMENT TASK NOTIFICATION

Course: **Year 11 Physics**

Task Number:	1	Task Type:	Depth Study
Task Weighting:	30%	Due Date:	Depth Study 31/3/2023 – Period 1 – 60 mins

Related Core Topics: **Module 1 – Kinematics**

Working Scientifically Syllabus Outcomes

A student:

- develops and evaluates questions and hypotheses for scientific investigation PH11/12-1
- designs and evaluates investigations in order to obtain primary and secondary data and information PH11/12-2
- selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media PH11/12-4
- solves scientific problems using primary and secondary data, critical thinking skills and scientific processes PH11/12-6
- communicates scientific understanding using suitable language and terminology for a specific audience or purpose PH11/12-7

Content Syllabus Outcomes

A student:

- describes and analyses motion in terms of scalar and vector quantities in two dimensions and make quantitative measurements and calculations for distance, displacement, speed, velocity and displacement. PH11-8

TASK

Students have performed a depth study of the motion of objects on 2 dimensions. Students will transfer the knowledge they have learnt through these experiences to a set of questions given to them on the day.

Students will bring their completed depth study notes to class to help answer the task questions.

Students will be required to

- analyse the motion of objects including the displacement, distance, speed, velocity and acceleration
- complete and analyse displacement/time graphs
- complete and analyse velocity time graphs
- complete vector addition for components of an object's movement
- assess the reliability and validity of experimental design
- suggest a possible procedure to test an aim

After the task is marked and returned, students will be required to do corrections for all questions where they did not achieve full marks.

Marking Criteria

A full marking criteria will be returned with the completed task to allow students to complete corrections.

The marking criteria will include assessment of the following:

- evaluating the investigation in regards to accuracy, error, reliability and validity
- analysing and evaluating quantitative data
- using primary data and applying mathematical relationships to describe motion in two dimensions with a focus on projectile motion

Please refer to “*Year 11 2023 Handbook and Assessment Policy*” which can be found at:

- Kingscliff High School website: https://kingscliff-h.schools.nsw.gov.au/content/dam/doe/sws/schools/k/kingscliff-h/download-box/Year_11_2023_Handbook_and_Assessment_Policy5.pdf