# Glen Innes High School

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# Assessment Schedule Physics – Year 11

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| **Component** | **Task 1** | **Task 2** | **Task 3** | **Weighting %** |
| **Research and Presentation** | **Depth Study****Practical Investigation and Report** | **Yearly Examination** |
| Term 1, Week 9 | Term 2, Week 9 | Term 3, Week 9/10 |
| **Outcomes assessed** PH11-1PH11-2PH11-3PH11-4PH11-7PH11-8 | **Outcomes assessed** PH11-1 PH11-3PH11-4PH11-5PH11-7 PH11-9 | **Outcomes****assessed** PH11-1PH11-4PH11-5PH11-6PH11-7PH11-8PH11-9PH11-10PH11-11 |
| Skills in Working Scientifically | 20 | 20 | 20 | **60** |
| Knowledge and Understanding | 10 | 10 | 20 | **40** |
| **Total %** | **30** | **30** | **40** | **100** |

##### SKILLS

##### Students:

* develop skills in applying the processes of Working Scientifically

**A student:**

* [develops and evaluates questions and hypotheses for scientific investigation PH11/12-1](http://syllabus.nesa.nsw.edu.au/chemistry-stage6/outcomes/outcomes-content/2003/)
* designs and evaluates investigations in order to obtain primary and secondary data and information PH11/12-2
* conducts investigations to collect valid and reliable primary and secondary data and information PH11/12-3
* [selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media PH11/12-4](http://syllabus.nesa.nsw.edu.au/chemistry-stage6/outcomes/outcomes-content/2012/)
* analyses and evaluates primary and secondary data and information PH11/12-5
* [solves scientific problems using primary and secondary data, critical thinking skills and scientific processes PH11/12-6](http://syllabus.nesa.nsw.edu.au/chemistry-stage6/outcomes/outcomes-content/2018/)
* communicates scientific understanding using suitable language and terminology for a specific audience or purpose PH11/12-7

**KNOWLEDGE AND UNDERSTANDING**

**Objective**

Students:

* develop knowledge and understanding of fundamental mechanics

**Year 11 course outcomes**

* A student:
* **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

**Objective**

Students:

* develop knowledge and understanding of energy

**Year 11 course outcomes**

* A student:
* **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