**Higher Physics**  Calendar Outline

This course has three units. To pass the course you must first pass the NAB assessment for each unit and submit an accurate practical report (Outcome 3).

Your final pass, and grade, are then determined by the end of course exam.

The course is **much** more demanding than Standard Grade in every way and requires many hours of home study, not just for homework but also for the completion and consolidation of classwork. Successful candidates are those who are prepared to put in the extra effort needed to become confident at this level. In particular you must be ready to ask for the extra help that is always available from your teacher.

JUNE – OCT: *Mechanics and Properties of Matter*

 HW1 Acceleration, Scalars and Vectors

 HW2 Velocity/Time Graphs

 HW3 Motion Equations and Projectiles

 HW4 Dynamics

 (HW5 Energy Calculations – in class)

 HW6 Momentum and Impulse

 HW 7 Pressure, Density and Buoyancy

 HW 8 Gas Laws and Kinetic Theory

**EARLY OCT** **Mechanics and Properties of Matter NAB**

OCT - DEC: *Electricity and Electronics*

 HW1 Revision and Electric Field

 HW2 Combinations of Resistors and Internal Resistance

 **Outcome 3 Practical Report**

 HW3 Wheatstone Bridge and Alternating Current

 HW4 Capacitors – AC and DC

 HW5 Operational Amplifiers

 **EARLY DEC** **Electricity and Electronics NAB**

DEC - MAR: *Radiation and Matter*

 HW1 Waves

 HW2 Refraction, Total Internal Reflection and Irradiance

 Revision and Past Paper Practice

**MID FEB** **PRELIM 1**

 HW3 Atomic Model

 HW4 Lasers and Optoelectronics

 HW5 Nuclear Radiation and Reactions

 HW6 Radiological Protection and Monitoring

**MID MAR**  **Radiation and Matter NAB**

Revision and Past Paper Practice

**MID APR PRELIM 2**

**MAY FINAL EXAM**