KINGSCLIFF HIGH SCHOOL
Subject Selection Information

KINGSCLIFF HIGH SCHOOL

ACHIEVEMENT THROUGH ENDEAVOUR

Faculty: Science

Subject: Physics

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Classification of the Course:

Board Developed Course

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Nature of the Course

The Physics 11–12 Syllabus provides students with the opportunity to analyse, study and enjoy an understanding of the physical world around us. Students build on their learning from the Science 7–10 Syllabus (2023) as they investigate phenomena, make predictions and solve problems related to emerging technologies, energy systems and scientific innovation. Students generate and analyse data and evaluate results to make ethical, evidence-based decisions as informed, reflective and scientifically literate citizens.

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Nature of the Course

Through the study of Physics 11–12, students:

- develop knowledge and understanding of the complexity of the physical world and the Universe and how they work
- explore how Aboriginal and Torres Strait Islander Peoples' ways of Knowing, Being and Doing enhance and provide social and Cultural context to the study of physics
- apply their knowledge of physics to address real-world problems and explore the impact of physics on society
- develop critical thinking, ethical decision-making and problem-solving skills.

Nature of the Course

Year 11 Course

The Year 11 Physics course comprises a study of 3 focus areas, including 10 hours of depth studies and one fieldwork exercise. Working scientifically outcomes and content are integrated.

The three focus areas are:

- Fundamentals of Mechanics
- Waves
- Electricity and Magnetism

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Nature of the Course

Year 12 Course

The Year 12 Physics course comprises a study of 4 focus areas, including 10 hours of depth studies. Working scientifically outcomes and content are integrated.

The four focus areas are:

- Advanced Mechanics
- Electromagnetism
- Nature of Light
- Matter, Energy and the Cosmos

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HSC Exam: Yes

Length of Exam: 3 hours

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Internal Assessment Structure

The Year 11 Physics assessment program is:

- Working Scientifically (practical) task
- Depth Study
- Yearly Examination

The Year 12 Physics assessment program is :

- Working Scientifically (practical) task
- Depth Study
- Modules' Test
- Yearly Examination

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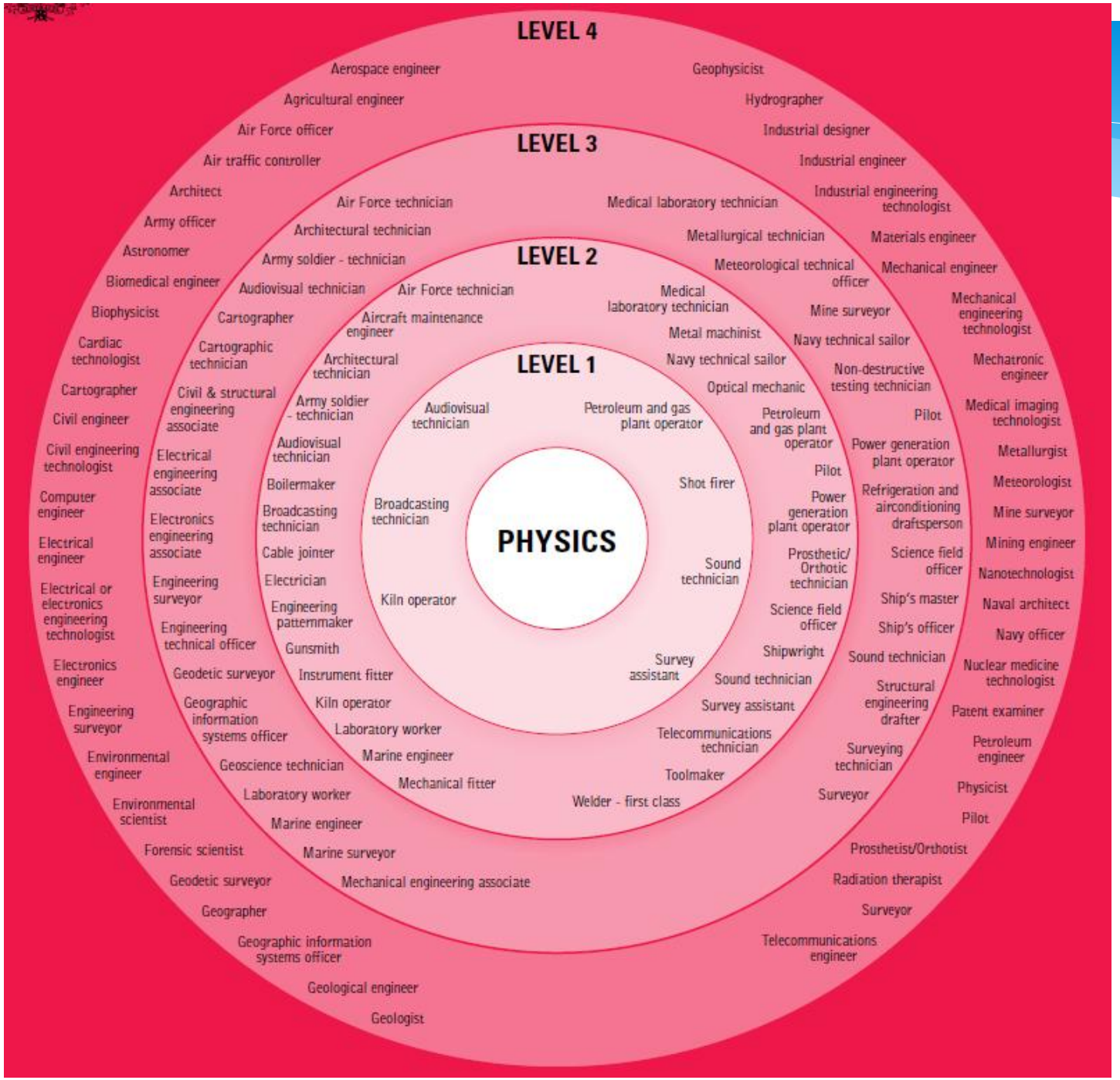
Skills Required for this subject and/or any Prerequisites:

- Students are to have achieved a sound knowledge and understanding of scientific content gained in K-10 science. A general capability in the working scientifically skills is also preferred.
- Students should have an interest in the sciences, especially with processes and principles associated with the study of physics.
- A sound understanding of mathematical concepts related to Physics – preference for students to be also studying Stage 6 Mathematics Advanced & possibly Stage 6 Mathematics Extension 1



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Career Opportunities

If you would like to know more

If you would like to know more about Stage 6 Physics:

- Talk to your Science teacher or Mrs O'Keeffe, Head Teacher Science