KINGSCLIFF HIGH SCHOOL
Subject Selection Information

KINGSCLIFF HIGH SCHOOL

ACHIEVEMENT THROUGH ENDEAVOUR

Faculty: Science

Subject: Investigating Science

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Classification of the Course:

Board Developed Course

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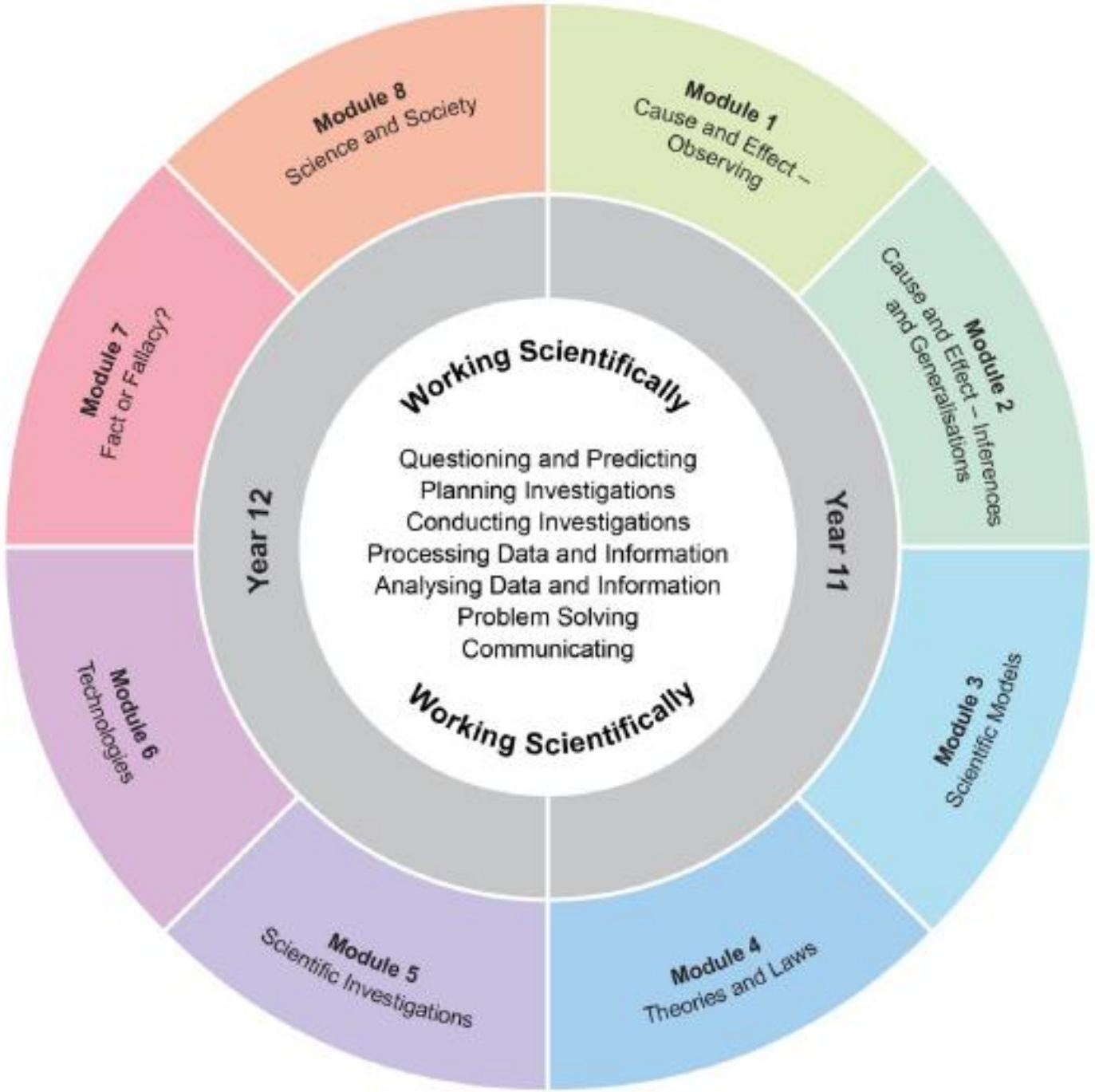
Nature of the Course

The **Year 11** course focuses on the centrality of observation in initiating the scientific process and examines the human tendency to draw inferences and make generalisations from these observations. Students learn about the development and use of scientific models and the similarities and differences between scientific theories and laws.

The **Year 12** course builds on the skills and concepts learnt in Year 11 with students conducting their own scientific investigations and communicating their findings in scientific reports. Students are provided with the opportunity to examine the interdependent relationship between science and technology and apply their knowledge, understanding and skills to scientifically examine a claim. The course concludes with students exploring the ethical, social, economic and political influences on science and scientific research in the modern world.



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Nature of the Course

This course will assist students to develop and improve their Stage 6 working scientifically skills, with the inclusion of specific content from the other Stage 6 Science courses.

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Nature of the Course

Year 11 Course Structure and Requirements

		Modules	Indicative hours	Depth studies
Year 11 course **(120 hours)**	**Working Scientifically Skills**	**Module 1** Cause and Effect – Observing	60	*30 hours in Modules 1–4
		Module 2 Cause and Effect – Inferences and Generalisations		
		Module 3 Scientific Models	60	
		Module 4 Theories and Laws		

*30 hours must be allocated to depth studies within the 120 indicative course hours.

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Nature of the Course

Year 12 Course Structure and Requirements

		Modules	Indicative hours	Depth studies
Year 12 course **(120 hours)**	**Working Scientifically Skills**	**Module 5** Scientific Investigations	60	*30 hours in Modules 5–8
		Module 6 Technologies		
		Module 7 Fact or Fallacy?	60	
		Module 8 Science and Society		

*30 hours must be allocated to depth studies within the 120 indicative course hours.

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HSC Exam: Yes

Length of Exam: 3 hours

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Internal Assessment Structure

The Year 11 Investigating Science assessment program is:

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

The Year 12 Investigating Science assessment program is :

- Working Scientifically (practical) task
- Depth Study
- Half-Yearly Examination
- 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 the nature and practice of science and its importance in the everyday world.
- A general understanding of scientific literacy will also assist students in the course.

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Career Opportunities

- This course will provide students with an excellent introduction to high level working scientifically skills that can be utilised in all avenues of Science
- It will also assist students in future learning of the Sciences at a tertiary level
- Students will develop a significant understanding of the nature and practice of Science and its impact on social, political and economical decision making
- This course also promotes further development of interpersonal skills that will assist students in all aspects of their future careers

If you would like to know more

If you would like to know more about Stage 6 Investigating Science:

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