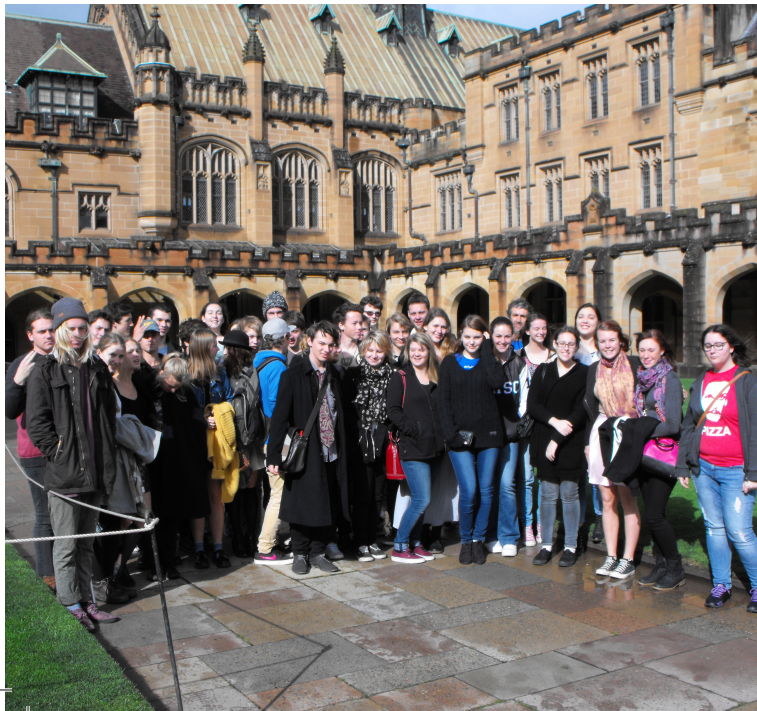
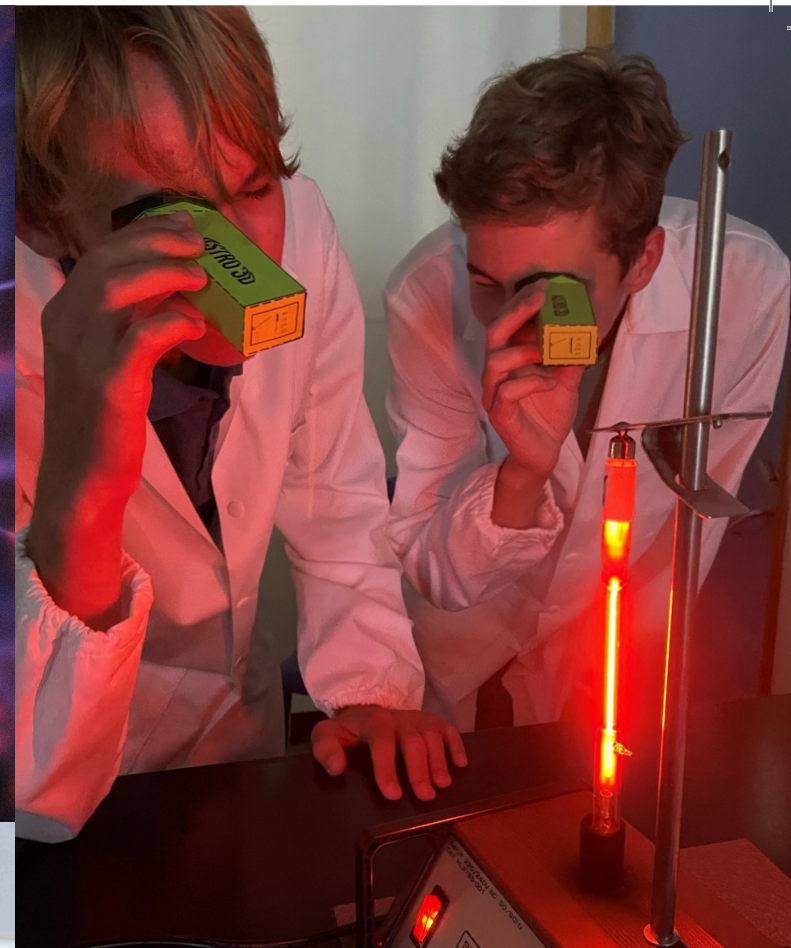
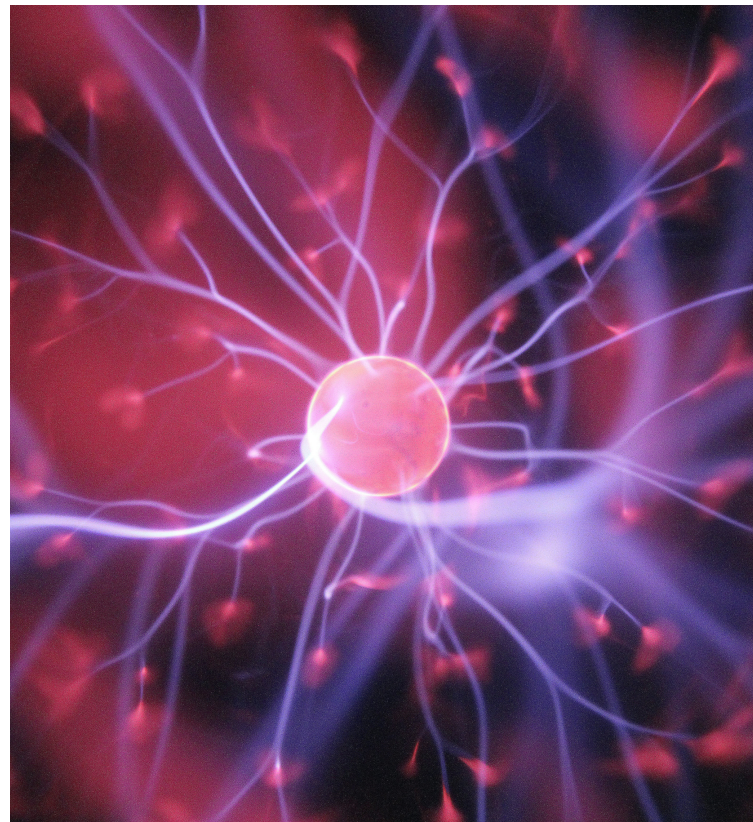


4.

## Career Opportunities

The study of Physics provides the foundation knowledge and skills required to support participation in a range of careers.

It is a discipline that utilises innovative and creative thinking to address new challenges, the areas of particle physics, the nature of the universe and quantum communication.



## Physics

YEAR 11 & YEAR 12 COURSES



**COFFS HARBOUR**  
SENIOR COLLEGE



1.

## Why do Physics?

Physics is an academically rigorous course and is primarily designed for those students intending to undertake tertiary studies in the Sciences.

The Physics Stage 6 Syllabus involves the study of matter and its motion through space and time, along with related concepts that include energy and force. Physics deals with the study of phenomena on scales of space and time – from nuclear particles and their interactions up to the size and age of the Universe. This allows students to better understand the physical world and how it works, appreciate the uniqueness of the Universe, and participate in navigating and influencing the future.

Whilst it is not required, it is recommended that students wishing to undertake studies in Physics are also studying a high-level Mathematics course such as Advanced Mathematics or above.

2.

## Course Description (structure/delivery)

### YEAR 11 COURSE

- Kinematics
- Dynamics
- Waves and Thermodynamics
- Electricity and Magnetism.

### YEAR 12 COURSE

- Advanced Mechanics
- Electromagnetism
- The Nature of Light
- From the Universe to the Atom.



3.

## Depth Studies

In addition to the course content, students will complete at least one Depth Study in each year.

A Depth Study is any type of investigation/activity that a student completes individually or collaboratively that allows the further development of one or more concepts found within or inspired by the syllabus. It may be one investigation/activity or a series of investigations/activities.

Depth Studies provide an excellent opportunity for students to investigate a topic of interest or significance to themselves or their community as part of Year 11 and Year 12 studies.

A minimum of 15 hours of in-class time will be allocated each year to support students' completion of their Depth Studies.