What’s Been Happening At KIOSC This Year.

The Knox Innovation, Opportunity and Sustainability Centre is a joint initiative of the schools in the Knox Network and Swinburne University, Wantirna Campus.

The mission of KIOSC is to connect students to their future by providing them with the ‘green’ knowledge and skills necessary for their success in the global technology focused workplace of the future.

Students in years 7-9 undertake two excursions per year to KIOSC where they use the high level technology platforms to further explore concepts taught in either science or humanities.

**Year 7**

**Science:**
The Science focus of the first excursion to KIOSC is biodiversity. Through 3 workshops, the students explore the microclimates of Swinburne, discover the populations of various plants and animals in Knox and investigate the effects of introduced species to the native habitats.

**Humanities:**
The focus of the Humanities excursion is water and water sustainability. The students digitally plan a town based on their ranking of the Pillars of Sustainability, investigate how to effectively clean dirty water and explore the issue of fresh water accessibility in a local and global context.

**Year 8**

**Science:**
The Year 8 Science program is a full day workshop, where the students chose one of three activities. One activity has the students working in a team to design and create a sustainable town. In another workshop the students could create and race solar powered cars. The final task has the students programming robots to complete a number of sustainability related tasks.

**Humanities:**
The mining industry is a huge component of the Australian Economy. In Year 8 the students investigate the process of rock and mineral production, the management involved in landcare, including mining and tourism.
Year 9

Science:
The science focus for the Year 9 classes attending KIOSC is chemistry. The Chemistry Carousel focuses on consumer chemistry with students evaluating various toothpastes and making their own soap. The final task is formulating and testing their own sunscreens – comparing them to the commercially available.

Humanities:
Students participate in decision making using an interactive tool to investigate the Pillars of Sustainability for waste. They will also perform materials testing to design sustainable product packaging. The final activity involves investigating the 6 Rs of waste.

Year 10

Science of Crime:
At the end of the Science of Crime elective, the students use the forensics skills learnt during the course to help solve a murder. The skills include fingerprinting, track analysis and tool mark investigation.

Senior School

Students in Years 10-12 will use the facility to access the high quality technological equipment to enhance their school based learning and will also have the opportunity to undertake VET certificates such as Laboratory Skills, Printing & Graphic Arts, Engineering (Megatronics), Electro technology (pre apprenticeship), Integrated Technology and Renewable Energy at Swinburne University as part of the KIOSC initiative.

These vocations have been identified as skill shortage areas nationally, thus students studying these courses will have enhanced pathways post-secondary school. Local high tech businesses will be integrally involved in the program by providing opportunities for students to connect classroom learning to the “real world” through a range of integrated programs including structured work place learning, cadetships, industry visits and mentoring.
Travel Arrangements to KIOSC

For the first visit of the year, Year 7 Students will leave the College immediately after Home Group and will walk to the venue. In extremely wet weather students will be shuttled to the venue in the school bus.

For all other years the students will meet Wantirna College staff at KIOSC at 9.00 am. This allows us to make maximum use of the facilities.

Students will be dismissed from the venue, although staff will be on hand to walk any students back to the school if needed.

Please be aware students must be in full school uniform.

The KIOSC Trade Training Centre program will maximise students’ employment potential, broaden their career aspirations and options and respond to local industry demands for more industry focused curriculum and training.