

## SCIENCE INVESTIGATIONS

<b>STATUS:</b>	ELECTIVE SUBJECT – Year 9 Only		
<b>COURSE OVERVIEW:</b>	In Year 9 Science Investigations, students experience a range of topics with a STEM focus. They engineer and program Lego EV3 robots to complete a series of Mars missions, before applying their skills to designing, testing and modifying a driverless vehicle of the future. Students learn about the many fields of Science utilised in Forensic Science and apply themselves by solving a simulated crime at school. They explore the evolution of flight with a Physics focus and research the contemporary scientific developments in drones, space exploration and tourism. Students will then be given a STEM project guided by the CSIRO's CREST program; where students will investigate a research question of their choosing. They will produce a multimodal response that articulates their findings and be awarded a CSIRO Silver CREST Award upon completion.		
<b>COURSE OUTLINE:</b>	This course will compliment and extend the topics covered in the Core Science subject. Students will undertake practical studies that will enhance their understanding of the Chemistry and Physics and develop their scientific investigative skills. The skills gained through participation in this course will prepare students for the rigors of Senior Science studies particularly in the fields of Chemistry and Physics.		
<b>COURSE ASSESSMENT:</b>	Investigation design and report on flight and forensics.		
<b>STUDY REQUIREMENTS:</b>	Personal research. Completion of key assessment tasks.		
<b>SPECIAL REQUIREMENTS:</b>	Nil		
<b>POSSIBLE CAREER PATHWAYS:</b>	Human Movement Instructor Engineer Oceanographer Electrician Radio Technician Architect Environmental Health Officer Hydrologist	Physicist Lab Technician Dentist Optometrist Doctor Audiologist Agricultural Scientist Taxidermist Science Teacher Metallurgist	Chemist Forensic Scientist Forest Ranger Pathologist Radiographer Bacteriologist Dietician Zoologist Veterinarian Mineralogist
<b>PARENT/CARER SUPPORT:</b>	Discuss elements of the course with your child. Monitor the completion of assessment tasks.		