



## Science and Technology Scope and Sequence

Stage 3 | Year 5 | 2025

	Term 1	Term 2	Term 3	Term 4
Unit of Inquiry Name		<b>Place in Space- The Earth is part of a system and its surface changes because of natural and human activity.</b>		<b>May The Force Be With You- Energy is transformed and used in products and systems.</b>
Duration		9 Weeks		9 Weeks
Overview		This unit of inquiry examines the Earth's place in the solar system and examines how the surface of the planet had changed over time. Scientific instruments have been developed to measure changes in the earth's surface and to predict natural disasters such as Tsunamis and Earthquakes. Students examine natural phenomena and learn about and engage with the scientists that study them. They also consider the Aboriginal culture and its unique understanding of forces of nature. Students consider some global issues that are the result of human Students are introduced to learning about bushfires in Australia and will apply this learning further in Term 4 Geography.		Students explore the differences between contact and non-contact forces, and how energy is transformed from one form to another. Students investigate how electrical energy can control movement in products and systems. Student's design, test, and evaluate a product or system that demonstrates energy transformation, further developing their understanding of the interrelationship between force and energy.
Outcomes		ST3-1WS-S, ST3-10ES-S		ST3-1WS-S, ST3-3DP-T, ST3-8PW-ST, ST3-9PW-ST
Assessment		<u>Deeper Water Deeper Learning Project</u> (AIS) framework will be used to design the program starting at the assessment. Design Mars Colony- Student investigate what conditions on Earth sustains life and how these conditions can be produced on Mars to create a successful sustainable existence for humans.		Create a video to explain forces at play Flow chart to depict energy transformations Electrical circuitry

Teachers seek opportunities for meaningful and related learning in other KLAs when planning for History.  
Please note scope and sequences may be adjusted for student learning and events.