S 3 Science & Technology

Living World

-plan & conduct a fair test to show the conditions needed for a particular plant or animal to grow and survive in its environment

-describe how changing physical conditions in the environment affect the growth & survival of living things

-test predictions by gathering data & use evidence to develop explanations of events & phenomena

-describe the structural &/or behavioural features of some native Australian animals & plants and why they are considered to be adaptations

(ST3-4LW-S)

-explore examples of managed environments used to produce food & fibre

-investigate how & why food and fibre are produced in managed environments

-identify & sequence the process of converting 'on-farm' food & fibre products into a product suitable for retail sale

(ST3-5LW-T)

Digital Technologies

-explore how the main components of digital systems connect together to form networks that transmit data

-define problems, & plan & implement digital solutions, using an appropriate visual programming language involving branching and iteration, & requiring user input

-design, modify & follow algorithms involving branching & iteration

(ST3-11DI-T)

Physical World

-investigate how electrical energy can be transferred & transformed in electrical circuits & can be generated from a range of sources

-describe examples where light, sound, heat & electrical energy transform from one type of energy to another

-investigate how electrical energy can control movement, sound, or light in a product or system

-design, test & evaluate a product or system that involves an energy transformation to meet an identified need using electrical energy

(ST3-8PW-ST)

Digital Technologies

-identify how whole numbers are used to represent all data (binary)) in digital systems

-collect, store & interpret different types of data

-use software to interpret & visualise data

-investigate internal & external components of digital systems that perform functions

-describe how data can be transmitted between two digital components

-identify & explain how existing information systems meet the needs of present & future communities

(ST3-11DI-T)

Earth and Space

-compare the key features of the planets of our solar system

-Research & communicate how Aboriginal &/or Torres Strait Islander Peoples use observations of the night sky to inform decisions about resources & significant cultural events

-examine & discuss current developments in astronomy, space & planetary science, particularly related to making observations & gathering data

-investigate the effects of sudden geological changes & extreme weather events on the Earth's surface

(ST3-10ES-S)

Glenys Goffett - ICT Capabilities