

	1	2	3	4	5	6	7	8	9	10	11
TERM 1	Bootcamp: Preparation and learning expectations	Project: Can we recycle creatively? (Rube Goldberg) Title / Unit: Physical World – electricity, Newton's Laws Content Focus: The Physical World strand is concerned with understanding the nature of forces and motion, and matter and energy. The two key concepts developed within this strand are that forces affect the motion and behaviour of objects and that energy can be transferred and transformed from one form to another. Through this strand students gain an understanding of how the concepts of force, motion, matter and energy apply to systems ranging in scale from atoms to the universe itself. Outcomes: SC5-10PW, SC5-11PW (PW2) SC5-5WS, SC5 – 6WS, SC5 – 7WS, SC5 – 9WS, SC5-1VA, SC5-2VA, SC5-3VA Skills: planning investigations, conducting investigations, processing and analysing data and information, communicating Skills consolidation from Stage 4: investigations, group work, ICT skills, data analysis, graphs, tables HPGE Additional information: This topic provides the prerequisite knowledge needed for stage 6 Physics course. Practical work and investigations will develop students' working scientifically skills in preparation for stage 6. Assessment will have increased rigor, exposing students to the academic requirements of a stage 6 science course and include exposure to data analysis, multiple choice questions, short answer and extended response questions including verbs. Assessment: Term 1 Week 8 Practical and Data Analysis, Knowledge Canvas Quiz 25%								Project: Where do we find acids and bases?	

	1	2	3	4	5	6	7	8	9	10
TERM 2	Project: Where do we find acids and bases? Title / Unit: Chemical World – chemical reactions – periodic table – radioactivity Content Focus: The Chemical World strand is concerned with understanding the composition and behaviour of matter. The key concepts developed in this strand are that the chemical and physical properties of substances are determined by their structure on an atomic scale and that substances change and new substances are produced in chemical reactions by rearranging atoms through atomic interactions and energy transfer. Outcomes: SC5-16CW, SC5-17CW (CW1 CW2 CW3) SC5-5WS, SC5 – 6WS, SC5 – 7WS, SC5 – 9WS, SC5-1VA, SC5-2VA, SC5-3VA Skills: planning investigations, conducting investigations, processing and analysing data and information, communicating Skills consolidation from Stage 4: investigations, group work, research ICT skills, SST, tier 2 words, data analysis, graphs, tables HPGE Additional information: This topic provides the prerequisite knowledge needed for stage 6 Chemistry course. Practical work and investigations will develop students' working scientifically skills in preparation for stage 6. Assessment will have increased rigor, exposing students to the academic requirements of a stage 6 science course and include exposure to data analysis, multiple choice questions, short answer and extended response questions including verbs. Assessment: Term 2 Week 5 Practical Data Analysis and Knowledge, Investigation Design 25%								Project: How can we stop the spread of disease?	

	1	2	3	4	5	6	7	8	9	10
TERM 3	Project: How can we stop the spread of disease? Title / Unit: Living World – Disease and Nervous Systems and Endocrine System and Homeostasis Outcomes: SC5-14LW, SC5-15LW (LW1) SC5-5WS, SC5 – 6WS, SC5 – 7WS, SC5 – 8WS, SC5 – 9WS, SC5-1VA, SC5-2VA, SC5-3VA Content Focus: The Living World strand is concerned with understanding living things. The key concepts developed within this strand are that the cell is the basic unit of life and that there is a diverse range of living things that have evolved on Earth. Students will gain an appreciation of the interdependence of living things and how they interact with each other and the environment. Through this strand students gain an understanding of how the structure of living things relates to the functions that their body systems perform and how these features aid their survival. Skills: conducting investigations, processing and analysing data and information, problem solving, communicating Skills consolidation from Stage 4: communicating relevant information, spelling, punctuation, grammar, tier 2 words, SST, report writing, data analysis, graphs, tables HPGE Additional information: This topic provides the prerequisite knowledge needed for stage 6 Biology course. Practical work and investigations will develop students' working scientifically skills in preparation for stage 6. Assessment will have increased rigor, exposing students to the academic requirements of a stage 6 science course and include exposure to data analysis, multiple choice questions, short answer and extended response questions including verbs. Assessment: Term 3 Week 9 Evaluation on vaccine effectiveness 25%									

	1	2	3	4	5	6	7	8	9	10
TERM 4	Project: Kangaroos - Pest or Precious? Title / Unit: Living World - Ecosystems Timing: 6 weeks Outcomes: SC5-14LW, SC5-15LW (LW2) SC5-5WS, SC5 – 6WS, SC5 – 7WS, SC5 – 9WS, SC5-1VA, SC5-2VA, SC5-3VA Skills: conducting investigations, processing and analysing data and information, communicating Skills consolidation from Stage 4: communicating relevant information, research ICT skills HPGE Additional information: This topic provides the prerequisite knowledge needed for stage 6 science courses. Practical work and investigations will develop students' working scientifically skills in preparation for stage 6. Assessment will have increased rigor, exposing students to the academic requirements of a stage 6 biology course and include exposure to data analysis, multiple choice questions, short answer and extended response questions including verbs. Assessment: Term 4 Week 4 Discussion on Kangaroos 25%						Project: Natural Disasters Title / Unit: Earth and Space - Plate tectonics, Interactions of Atmosphere & Earth Outcomes: SC5-12ES, SC5-(ES2, ES3) SC5-5WS, SC5 – 6WS, SC5 – 7WS, SC5 – 8WS, SC5 – 9WS, SC5-1VA, SC5-2VA, SC5-3VA Skills: conducting investigations, processing & analysing data and information, problem solving, communicating Skills consolidation from Stage 4: investigations, group work, research ICT skills HPGE Additional information: This topic provides the prerequisite knowledge needed for stage 6 earth and environment course. Practical work and investigations will develop students' working scientifically skills in preparation for stage 6. There will be continued exposure to data analysis throughout the topic.			