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CURRICULUM AREA	FOUNDATION – YEAR 2	YEAR 3 & 4	YEAR 5 & 6
DESIGN TECHNOLOGIES [ENGINEERING]	Explore the characteristics and properties of materials and components that are used to produce designed solutions (ACTDEK004) Use materials, components, tools, equipment and techniques to safely make designed solutions (ACTDEP007)	Investigate how forces and the properties of materials affect the behaviour of a product or system (ACTDEK011) Investigate the suitability of materials, systems, components, tools and equipment for a range of purposes (ACTDEK013)	Investigate how electrical energy can control movement, sound or light in a designed product or system (ACTDEK020) Select appropriate materials, components, tools, equipment and techniques and apply safe procedures to make designed solutions (ACTDEP026)
SCIENCE	**PHYSICAL SCIENCE- YEAR 1** Light and sound are produced by a range of sources and can be sensed (ACSSU020) Science as a Human Endeavour F-2 Science involves observing, asking questions about, and describing changes in, objects and events(ACSHE013), (ACSHE021), (ACSHE034) **SCIENCE INQUIRY SKILLS F- 2** Engage in discussions about observations and represent ideas (ACSIS233), (ACSIS213), (ACSIS041) Participate in guided investigations to explore and answer questions (ACSIS011), (ACSIS025), (ACSIS038)	**CHEMICAL SCIENCE- YEAR 4** Natural and processed materials have a range of physical properties that can influence their use (ACSSU074) **SCIENCE AS A HUMAN ENDEAVOUR 3-4** Science involves making predictions and describing patterns and relationships (ACSHE050), (ACSHE061) **SCIENCE INQUIRY SKILLS 3-4** With guidance, identify questions in familiar contexts that can be investigated scientifically and make predictions based on prior knowledge (ACSIS053), (ACSIS064) Compare results with predictions, suggesting possible reasons for findings (ACSIS215), (ACSIS216)	**PHYSICAL SCIENCE YEAR 6** Electrical energy can be transferred and transformed in electrical circuits and can be generated from a range of sources (ACSSU097) **SCIENCE AS A HUMAN ENDEAVOUR 5-6** Scientific knowledge is used to solve problems and inform personal and community decisions (ACSHE083), (ACSHE100) **SCIENCE INQUIRY SKILLS 5-6** Identify, plan and apply the elements of scientific investigations to answer questions and solve problems using equipment and materials safely and identifying potential risks (ACSIS086), (ACSIS103) Decide variables to be changed and measured in fair tests, and observe measure and record data with accuracy using digital technologies as appropriate (ACSIS087), (ACSIS104) Reflect on and suggest improvements to scientific investigations (ACSIS091), (ACSIS108)
CRITICAL AND CREATIVE THINKING Analysing, synthesising and evaluating reasoning and procedures	**Draw conclusions and design a course of action** identify alternative courses of action or possible conclusions when presented with new information **Evaluate procedures and outcomes** evaluate whether they have accomplished what they set out to achieve **Apply logic and reasoning** identify reasoning used in choices or actions in specific situations	**Draw conclusions and design a course of action** draw on prior knowledge and use evidence when choosing a course of action or drawing a conclusion **Evaluate procedures and outcomes** explain and justify ideas and outcomes **Apply logic and reasoning** identify and apply appropriate reasoning and thinking strategies for particular outcomes	**Draw conclusions and design a course of action** scrutinise ideas or concepts, test conclusions and modify actions when designing a course of action **Apply logic and reasoning** assess whether there is adequate reasoning and evidence to justify a claim, conclusion or outcome **Evaluate procedures and outcomes** evaluate the effectiveness of ideas, products, performances, methods and courses of action against given criteria

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CURRICULUM AREA	YEARS 7 & 8	YEARS 9 & 10
DESIGN TECHNOLOGIES (ENGINEERING)	Analyse how motion, force and energy are used to manipulate and control electromechanical systems when designing simple, engineered solutions (ACTDEK031) Select and justify choices of materials, components, tools, equipment and techniques to effectively and safely make designed solutions (ACTDEP037)	Investigate and make judgments on how the characteristics and properties of materials, systems, components, tools and equipment can be combined to create designed solutions (ACTDEK046)
SCIENCE	**PHYSICAL SCIENCE- YEAR 8** Energy appears in different forms, including movement (kinetic energy), heat and potential energy, and energy transformations and transfers cause change within systems (ACSSU155) **SCIENCE INQUIRY SKILLS 7-8** Measure and control variables, select equipment appropriate to the task and collect data with accuracy (ACSIS126), (ACSIS141) Communicate ideas, findings and evidence based solutions to problems using scientific language, and representations, using digital technologies as appropriate (ACSIS133), (ACSIS148)	**PHYSICAL SCIENCE- YEAR 9** Energy transfer through different mediums can be explained using wave and particle models (ACSSU182) **SCIENCE INQUIRY SKILLS 9-10** Plan, select and use appropriate investigation types, including field work and laboratory experimentation, to collect reliable data; assess risk and address ethical issues associated with these methods (ACSIS165), (ACSIS199) Select and use appropriate equipment, including digital technologies, to collect and record data systematically and accurately (ACSIS166), (ACSIS200)
CRITICAL AND CREATIVE THINKING Analysing, synthesising and evaluating reasoning and procedures	**Apply logic and reasoning** identify gaps in reasoning and missing elements in informatio **Draw conclusions and design a course of action** differentiate the components of a designed course of action and tolerate ambiguities when drawing conclusions **Evaluate procedures and outcomes** explain intentions and justify ideas, methods and courses of action, and account for expected and unexpected outcomes against criteria they have identified	**Evaluate procedures and outcomes** evaluate the effectiveness of ideas, products and performances and implement courses of action to achieve desired outcomes against criteria they have identified **Draw conclusions and design a course of action** use logical and abstract thinking to analyse and synthesise complex information to inform a course of action **Apply logic and reasoning** analyse reasoning used in finding and applying solutions, and in choice of resources