Year 7 Course Overview 2023

KLA/Course Technology & Applied Studies (TAS)	**Students rotate through four 10 week focus areas throughout the year. Each area engages students in the design process to develop and extend critical thinking and design process skills.**			
Focus areas	**Agriculture & Food Technologies** Focuses on the investigation of managed environments, such as urban farms. Students learn about the processes of food production, investigate the innovative and sustainable supply of agriculturally produced raw materials.	**Digital Technologies** The Digital Technologies context encourages students to develop an empowered attitude towards digital technologies, use abstractions to represent and decompose real-world problems, and implement and evaluate digital solutions.	**Engineered Systems** The Engineered Systems context focuses on how force, motion and energy can be used in systems, machines and structures. Students are provided with opportunities to experiment and develop prototypes to test their solutions. They understand how forces and the properties of materials affect the behaviour and performance of engineered systems, machines and structures.	**Material Technologies** The Material Technologies context focuses on the application of specialist skills and techniques to a broad range of traditional, contemporary and advancing material technologies. Students develop knowledge and understanding of the characteristics and properties of a range of materials.
	Unit: Australian Hamburgers **Assessment: Design a meal** Design brief and folio (completed during class throughout the term) Due: week 9 Weighting 25% L - Research skills - Vocabulary development - Aspects of writing N - Measurement - Graphical representation & data analysis	**Unit: Fast and Curious** **Assessment: Anki Car coding** Design brief and folio (completed during class throughout the term) Due: week 9 Weighting 25% L - Digital literacy - Vocabulary development - Aspects of writing N - Computational thinking - Graphical representation & data analysis	**Unit: Helpful Hydraulics** **Assessment: Build a helpful hydraulic machine** Design brief and folio (completed during class throughout the term) Due: week 9 Weighting 25% L - Comprehension. - Vocabulary development - Aspects of writing N - Measurement - Technical drawing - Graphical representation & data analysis	**Unit: Australian Textiles** **Assessment: Surface design** Design brief and folio (completed during class throughout the term) Due: week 9 Weighting 25% L - Digital literacy - Financial literacy - Vocabulary development - Aspects of writing N - Technical drawing - Graphical representation & data analysis