7 & 8 STEM CURRICULUM OVERVIEW

	Year 7 Science	Year 7 Maths	Year 8 Science	Year 8 Maths
TERM 1 WEEK 1	**Unit 1: STEM Superheroes** Students will investigate STEM qualities through investigating local and international STEM Superheroes		**Unit 1: Grapes, Ground and Growth** Students will discover the chemical changes used and minerals that influence the wine industry across the year and the mathematical impact on the population.	**Unit 1: Grapes, Ground and Growth** Students will discover the chemical changes used and minerals that influence the wine industry across the year and the mathematical impact on the population.
WEEK 2				
WEEK 3				
WEEK 4				
WEEK 5	**Unit 2: The Local Environment**			
WEEK 6				
WEEK 7	Students will investigate local environment to develop and refine Dichotomous Keys before investigating Bees and their impact on the Environment			
WEEK 8				
WEEK 9				
WEEK 10				
WEEK 11				
TERM 2 WEEK 1		**Unit 3: Running a Business** Students will develop their financial literacy and awareness of algebraic concepts through developing a business	**Unit 2: Geology in Action** Students explore the rock cycle, plate tectonics and probability to investigate an important industry to the South Australian economy. Developing an understanding of the advancements in mining using robotics, artificial intelligence and other digital technologies.	**Unit 2: Geology in Action** Students explore the rock cycle, plate tectonics and probability to investigate an important industry to the South Australian economy. Developing an understanding of the advancements in mining using robotics, artificial intelligence and other digital technologies.
WEEK 2				
WEEK 3				
WEEK 4				
WEEK 5				
WEEK 6		**Unit 4: Product Design** Students will use three dimensional design to develop an innovative product design		
WEEK 7				
WEEK 8				
WEEK 9				
WEEK 10				
TERM 3 WEEK 1		**Unit 5: Our Place in Space** Students will explore our place in space and design a mission to Mars based on their understanding of measurement and coding.	**Unit 3: Powering South Australia** Students will investigate the algebraic patterns and linear relationships of securing different energy types and transformations for the people of South Australia.	**Unit 3: Powering South Australia** Students will investigate the algebraic patterns and linear relationships of securing different energy types and transformations for the people of South Australia.
WEEK 2				
WEEK 3				
WEEK 4				
WEEK 5				
WEEK 6				
WEEK 7				
WEEK 8	**Unit 6: Illuminate** Students will design and develop showpieces for the Illuminate festival, grounded in STEM	**Unit 6: Illuminate** Students will design and develop showpieces for the Illuminate festival, grounded in STEM	**Unit 4: Illuminate** Students will design and develop showpieces for the Illuminate festival, grounded in STEM	**Unit 4: Illuminate** Students will design and develop showpieces for the Illuminate festival, grounded in STEM
WEEK 9				
WEEK 10				
TERM 4 WEEK 1	**Unit 7: Forces and Simple Machines** Students will design and develop a machine to complete a task using their understanding of Forces		**Unit 5: Living Better** Students will explore the advancements in technologies that impact human physiology and draw conclusions using statistical knowledge.	**Unit 5: Living Better** Students will explore the advancements in technologies that impact human physiology and draw conclusions using statistical knowledge.
WEEK 2				
WEEK 3				
WEEK 4				
WEEK 5	**Unit8: Personal Passion Project** Students are to complete a project based on what they are passionate about	**Unit8: Personal Passion Project** Students are to complete a project based on what they are passionate about		
WEEK 6				
WEEK 7				**Unit 6: Mastery of Math Skills** Students will review the development of their mathematical knowledge and skills throughout the year.
WEEK 8				
WEEK 9				

*Please note: The Unit order may alter due to facility and resource availability