

**Varsity College
Year 9 – Engineering**

Term 3, 2023

Week	Date	Topics	Assessment
1	10-14 July Athletics Carnival - Wed	<ul style="list-style-type: none"> Exploring the design problem – co2 introduction and Newton's Laws of Motion 	
2	17-21 July	<ul style="list-style-type: none"> Exploring the design problem – drag, mass and friction 	
3	24-28 July	<ul style="list-style-type: none"> Exploring the design problem – Gantt chart, success criteria and materials investigation 	
4	31 July – 4 August	<ul style="list-style-type: none"> Develop ideas – existing designs, PMIs and sketching 	
5	7-11 August	<ul style="list-style-type: none"> Develop ideas – existing designs, PMIs and sketching 	
6	14-18 August	<ul style="list-style-type: none"> Develop ideas – Solid Edge modelling (individual) 	
7	21-25 August	<ul style="list-style-type: none"> Develop ideas – Solid Edge modelling (individual) Exam revision 	Exam
8	28 August – 1 Sept. GC Show PH - Fri	<ul style="list-style-type: none"> Develop ideas – Solid Edge modelling (individual) 	
9	4-8 September	<ul style="list-style-type: none"> Develop ideas – virtual prototyping (virtual wind tunnel) and redesign 	
10	11-15 September	<ul style="list-style-type: none"> Develop ideas - virtual prototyping (virtual wind tunnel), redesign and compare to partner's design 	SE file due Draft due
School Holidays: Saturday September 16 – Monday October 2			

Term 4, 2023

Week	Date	Topics	Assessment
1	2-6 October King's Birthday PH - Mon	<ul style="list-style-type: none">Develop ideas – virtual prototyping (virtual wind tunnel) and compare to partner's design	
2	9-13 October	<ul style="list-style-type: none">Generate, manufacture and assemble car	
3	16-20 October	<ul style="list-style-type: none">Generate, manufacture and assemble car	
4	23-27 October	<ul style="list-style-type: none">Prototyping (actual wind tunnel and smoke tunnel)	
5	30 Oct – 3 Nov	<ul style="list-style-type: none">Generate – working drawings, hypothesis and pre-testing calculations	
6	6-10 November	<ul style="list-style-type: none">Evaluation – analysis of final testing results	
7	13-17 November	<ul style="list-style-type: none">Evaluation – recommendations	
8	20-24 November	<ul style="list-style-type: none">Refine assessment	Folio Due
9	27 Nov – 1 Dec	<ul style="list-style-type: none">Results returned to students	
10	4-8 December	Final Week Alternate Program	
School Holidays: Saturday December 9 – Sunday January 21, 2024			