

**Varsity College**  
**Year 10 Engineering - Semester 1, 2023**

Week	Date	Topics	Assessment
1	23-27 January Australia Day PH - Thurs	Workshop induction, OnGuard training, introduction to the unit and assessment. Engineering Problem solving process. Explore – Newton's laws of motion	
2	30 Jan – 3 Feb Swimming Carnival - Mon	Explore – Scalar vs Vector quantities Explore – Forces Resolving vectors into Horizontal and Vertical components (trigonometry)	
3	6-10 February	Clarifying Unknowns – Mousetrap specifications Explore – Mass, Gravity and Weight	
4	13-17 February	Explore – Friction Clarifying Unknowns – Coefficient Experiment	
5	20-24 February	Explore – Motion graphs Explore – Introduction to linear motion	
6	27 Feb – 3 Mar	Report - Set up and Layout Explore – Gantt chart, Success Criteria, Knowns, Unknowns, Assumptions and Limitations, Related technical language.	
7	6-10 March GIPSA - Wednesday	Report – Transfer class notes and experiment data	
8	13-17 March	Ideation – Existing designs and concepts designs	<b>Exam</b>
9	20-24 March	Prototyping and Final Design – SolidEdge Introduction Related technology – Rapid manufacturing (Laser and 3D Printer)	
10	27-31 March Cross Country - Thurs	Prototyping and Final Design - SolidEdge (Parts + Assemblies)	
<b>School Holidays: Saturday April 1 – Sunday April 16</b>			
1	17-21 April	Prototyping and Final Design - SolidEdge (AS1100 drawings, renders)	
2	24-28 April ANZAC Day PH - Tues	Prototyping and Final Design - Adobe Illustrator	<b>SE files due</b>
3	1-5 May Labour Day PH - Monday GIPSA - Wednesday	Related technology - Logger Pro	<b>Draft due</b>
4	8-12 May	Prototyping and Final Design - Build	
5	15-19 May GIPSA - Wednesday	Prototyping and Final Design - Build and modify	
6	22-26 May GIPSA - Wednesday	Prototyping and Final Design - Build and modify	
7	29 May – 2 June	Testing week	<b>Final Prototype Due</b>
8	5-9 June GIPSA - Wednesday	Analysing, Evaluation and Recommendations	
9	12-16 June	Analysing, Evaluation and Recommendations	<b>Project Folio Due</b>
10	19-23 June	<b>Exam Block</b>	
<b>School Holidays: Saturday June 24 – Sunday July 9</b>			