

FAIRFIELD COLLEGE



LEARNING AREA: Hard Materials Technology

Course: ENN300

YEAR: 2026

TEACHER: JDO

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11
TERM 1											
Dates	26 Jan-30 Jan	2 - 6 Feb	9-13 Feb	16-20 Feb	23-27 Feb	2 - 6 Mar	9-13 Mar	16-20 Mar	23-27 Mar	30 Mar-2 Apr	
Important Dates		Waitangi Day (Friday)								Easter (Friday)	
Overarching Learning Focus	Whanaungatanga	Course intro/ Health and Safety	Commercial vs. DIY research.	Design research and analysis	Build CD hovercraft prototypes.	Testing different skirt geometries.	Develop stakeholder brief.	Generating 2D CAD drawings.	Generating 3D CAD drawings.	Design review, materials order.	
Assessment Due Dates & Checkpoints	AS91622 CNC Machines (4 Credits, Level 3)										
TERM 2											
Dates	20 -24 Apr	27 Apr – 1 May	4 - 8 May	11 - 15 May	18 - 22 May	25 - 29 May	1 -5 Jun	8 -12 Jun	15 - 19 Jun	22 - 26 Jun	29 Jun - 3 Jul
Important Dates					Learn Week		King's Birthday				
Overarching Learning Focus	Marking out marine ply.	Laser cut decks	Laser cut decks	Building the seat box.	Learn Week	Fabricating steering handles	Constructing leaf blower cradle.	Skirt manufacture	Bonding the skirt system.	Dry fit, test displacement.	Blower leak testing.
Assessment Due Dates & Checkpoints	AS91625 Complex Machines - Report (3 Credits, Level 3)						AS91620 + AS91611 - Portfolio (6 Credits + 6 Credits, Level 3)				
TERM 3											
Dates	20 -24 Jul	27 Jul - 31 Jul	3 - 7 Aug	10 - 14 Aug	17 - 21 Aug	24 - 28 Aug	31 Aug -4 Sep	7 - 11 Sep	14 - 18 Sep	21 - 24 Sep	
Important Dates								Learn Week			
Overarching Learning Focus	Painting and sealing wood.	Applying grip and bumpers.	Data collection, hover height.	Identify points of failure.	Modifying air hole patterns.	Performance-based trial runs.	Final Hover-Prix assessment.	Learn Week	Complete NCEA portfolio documentation.	Reflection, end-of-life planning	
Assessment Due Dates & Checkpoints	AS91620 + AS91611 - Portfolio (6 Credits + 6 Credits, Level 3)										
TERM 4	Project Completion (Assessment Catch up)										
Dates	12 -16 Oct	19 - 23 Oct	26 -30 Oct	2 - 6 Nov							
Important Dates			Labour Day (Monday)	Seniors Finish (Thursday)							