

DESIGN ENGINEERING PATHWAYS

YEAR 8 PRACTICAL MECHANISMS LP

DECLARATIVE KNOWLEDGE I know			PROCEDURAL KNOWLEDGE I can do		
K1	How to identify the following lever parts: Beam Fulcrum Load Effort		C1	With minimal help and support, I know how to build a simple lever system to test mechanical advantage.	
K2	How to identify the following pulley parts: Driver Pulley Driven Pulley Belt		C2	With minimal help and support, calculate the mechanical advantage in a lever system.	
K3	How to identify the following linkages: Reverse motion linkage Parallel motion Bell crank Treadle		C3	With minimal help and support, I know how to build a simple Pulley system to test mechanical advantage.	
K4	How to identify the following gear parts: Driver gear Driven gear Idler gear		C4	With minimal help and support, calculate the mechanical and speed advantage in a Pulley system.	
K5	How to identify the following mechanisms: Crank and slider Peg and slot Rack and pinion		C5	With minimal help and support, I know how to build a simple linkage system to test mechanical advantage.	
K6	Reflecting on work completing will help improve future learning		C6	With minimal help and support, calculate the mechanical advantage in a gear system.	
K7			C7	With minimal help and support, I know how to build a simple gear system to test mechanical advantage.	
K8			C8	With minimal help and support, I know how to build the following gear systems: Crank and slider Peg and slot Rack and pinion	

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			C9	With minimal help and support, use progression over time, independently evaluate the quality of the product, related research and design tasks.	
			C10	With minimal help and support, identify targets for improvement in future products.	