

JUNIOR CERTIFICATE EXAMINATION, 2002
METALWORK TECHNIQUES AND DESIGN

Marking Scheme
Ordinary Level Project

Part	Description	Mark	Total
Assembly	Engine/Wing/Fuselage attached	3	10
	Fin/Base/Stand attached	3	
	Wiring and Soldering	4	
Function	Function		10
Finish	Finish		10
Wing (Part 1)	Profile	8	10
	Hole	2	
Fuselage (Part 2)	M4 Holes	4	14
	Length	2	
	Taper	3	
	Flat	4	
	Slot	1	
Tail Fin (Part 3)	Profile	6	6
Engine (Part 4)	Profile	10	16
	Countersinking	1	
	Holes (5 off)	5	
Stand (Part 5)	Profile	7	14
	Holes	4	
	Bends	3	
Base (Part 6)	Design Concept		10
		Total	100 x 3 = 300

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Marking Scheme
Higher Level Practical

Part	Description	Marks	Total
Assembly	Parts 2,3,4 and 5 connected to Part 1	10	10
Function	Function	10	10
Finish	Finish	10	10
Part 1 (Base Plate)	Profile Holes	8 7	15
Part 2 (Valve)	Profile Slot	10 8	18
Part 3 (Valve Seat)	Profile Hole	10 1	11
Part 4 (Cam)	Profile R15 R5 Tangents Hole csk	6 4 4 2	16
Part 5 (Knob)	Profile Lengths 3x1 Ø 10 Ø 20 Ø 30 M5 Hole	3 2 2 1 2	10
		Total	100 x 1.5 = 150

METALWORK TECHNIQUES AND DESIGN

**Marking Scheme
Higher Level Project**

Part	Description	Marks	Total
Assembly	Parts 2,3,4,6,7,10,11 attached to Part 1 Parts 8 & 9 attached to Parts 7 & 11 Part 5 attached to Parts 8 & 9 Electric circuit, Pulleys, Belt and Motor.	6 4	10
Function	Function	10	10
Finish	Finish	10	10
Part 1 (Chassis)	Profile Holes Slot	6 6 3	15
Part 2 (Spoiler)	Profile Holes Bending	8 1 5	14
Part 3 (Seat)	Profile Hole Bending	3 1 2	6
Part 4 (Battery Holder)	Profile Hole Bending	2 1 1	4
Part 5 (Wheels) x 4	Width/Hole	1	4
Parts 6 & 7 (Axle Swivel)	Profile Holes/Thread Swivel Pin	1 2 1	4
Parts 8 & 9 (Axles)	Lengths Threads	2 2	4
Part 10 (Safety Frame)	Profile Threads	2 1	3
Part 11 (Rear Axle Supports) x 2	Profile Holes Bending	1 1 1	6
Design	Design	10	10
		Total	100 x 1.5 = 150