Summer 2023 Engineering Level 1 / 2 NCFE

Paper 1			
	Section A	My Revision pages:	
Engineering disciplines	1.1. Engineering disciplines through projects and products1.1.1. Engineering discipline skills1.2. The health and safety legislation governing engineering1.2.1. Health and safety legislation	Pages 9 –20	
Applied science and mathematics in engineering	 2.1. Application of SI units of measurement 2.1.1. SI units of measurement 2.1.2. Application of base SI units 2.2. Equations used to calculate energy, force, motion, electrical and geometric shapes 2.2.1. Equations for properties 2.2.2. Application of equations 	Pages 21 -23	
Reading Engineering Drawings	3.1. Reading engineering drawings3.1.1. Drawing conventions3.1.2. British Standards (BS)	Pages 27 – 30	
Properties, characteristics and selection of engineering materials	4.1. Properties and characteristics of materials4.1.1. Properties4.1.2. Characteristics4.1.3. Materials	Pages 32 – 41	
Engineering tools, equipment and machines	L5.1. Tools, equipment and machines 5.1.1. Marking out 5.1.2. Modification 5.1.3. Joining 5.1.4. Finishing 5.2. Safe and correct use 5.2.1. Control measure	Pages 42 -54	
	6.1. Hand-drawn engineering drawings	Pages 55 – 58	

engineering drawings	6.1.1. A freehand sketch	
	6.1.2. A hand-drafted isometric drawing sheet	
	6.1.3. A hand-drafted orthographic drawing sheet	
	7.1.CAD engineering drawings	Pages 59 – 62
Drawings engineering	7.1.1. A CAD isometric drawing sheet	
	7.1.2. A CAD orthographic drawing sheet	
	7.1.3. The uses of CAD	
techniques	8.1. Production planning	Pages 63-66
	8.1.1. Risk assessment	
	8.1.2. Production plan	
skills and technique	9.1. Skills and techniques	Pages 67-73
	9.1.1. Prepare materials	
	9.1.2. Modify shape and size of materials	
	9.1.3. Join materials	
	9.1.4. Finish materials	
	9.2. Safe and correct use of tools, equipment and machines	
	9.2.1. Preparation and use of tools, equipment and machines	
	9.2.2. Control measures	