

TERM 1 (45 days)	Week 1 27-29 Jan (3 days)	Week 2 1-5 Feb (5 days)	Week 3 8-12 Feb (5 days)	Week 4 15-19 Feb (5 days)	Week 5 22-26 Feb (5 days)	Week 6 1-5 March (5 days)	Week 7 8-12 March (5 days)	Week 8 15-19 March (5 days)	Week 9 23-26 March (4 days)	Week 10 29-31 March (3 days)
CAPS topic	(CAPS pg. 22) Safety					(CAPS pg. 22) Structural materials				
Concepts, skills and values	Farm safety tips for chemicals: storage of chemicals or hazardous materials on the farm, rules applicable to the storage of hazardous substances on the farm, improper use and disposal of chemicals, guidelines for the safe use of chemicals, guidelines for the safe disposal of chemicals, safe work procedures and processes.			Basic general safety regulations: safe handling and safety regulations applicable to all workshop equipment farm equipment as well as skills and construction processes must be dealt with through the content during the year.		Metals: <i>ferrous</i> : high carbon steel, cast iron, <i>non-ferrous</i> : aluminium, copper, zinc, lead and tin.		Building and construction: concrete rations, basic foundations: compaction and reinforcing techniques, reinforcement, damp proofing, compacting, brick bonds, supports, lintels, beams and struts, roof covering types, insulation.		
Requisite pre-knowledge	Link with Grade 10									
Resources (other than textbook) to enhance learning	Past examination papers			Past examination papers		Past examination papers		Past examination papers		
Informal assessm; remediation	Questions from past papers, tests, practical work			Questions from past papers, tests, practical work		Questions from past papers, tests, practical work		Questions from past papers, tests, practical work		
SBA (Formal Assessment)	<i>First part of PAT (Design Portfolio) must be handed out to the learners.</i>		RESEARCH TASK 1 must be handed to the learners: (25%)		<i>Learners must start with the second part of the PAT project/product (manufacturing). (Four half-hour periods must be allocated for this per cycle/week.)</i>			TASK 2: TEST (100%) Minimum of 100 marks		

TERM 2: (51 days)	Week 1 13 – 16 April (4 days)	Week 2 19 – 23 April (5 days)	Week 3 28 – 30 April (3 days)	Week 4 03 – 07 May (5 days)	Week 5 10 – 14 May (5 days)	Week 6 17 – 21 May (5 days)	Week 7 24 – 28 May (5 days)	Week 8 31 Mei – 4 June (5 days)	Week 9 07 – 11 June (5 days)	Week 10 14 – 18 June (4 days)	Week 11 21 – 25 June (5 days)
CAPS topic	(CAPS pg. 23) Energy			(CAPS pg. 23) Construction processes							
Concepts, skills and values	<i>Electrical Energy:</i> 220 and 380 Volts AC and DC current: heating and magnetism, components in the household distribution board: earthing, earth leakage protector, overload protector, circuit breakers, alternating and direct current systems: application and identification of alternating and direct current systems as well as single and three phase current.	<i>Electrical conductors/cabling:</i> identification, function and components: flexible cords, flexible cable, armoured cable, electric motors and generators: symbols/units, identification and construction of single and three phase motors, <i>general:</i> identification, function and components: multi meter, three-point plug, geyser.		Welding: <i>arc welding:</i> working, application, parts, safety, advantages and disadvantages: oil bath arc welder, inverter welder.			Oxy-acetylene welding: equipment, accessories, working pressure, welding principles, welding methods, assembly of the apparatus, safety, welding joints and symbols: types of welding joints: Identification and application; and different welding symbol: Identification and function.			Metal work: Temporary and semi-permanent joining methods: riveting, bolts, washers and nuts, thread cutting.	Revision/Consolidation
Requisite pre-knowledge	Link with Grade 10										
Resources (other than textbook) to enhance learning	Past examination papers	Past examination papers		Past examination papers							Previous exam papers/Revision tests/Tutoring
Informal assessm; remediation	Questions from past papers, tests, practical work	Questions from past papers, tests, practical work		Questions from past papers, tests, practical work							
SBA (Formal Assessment)											TASK 3: TEST (100%) Minimum of 150 marks

TERM 3: (52 days)	Week 1 13 – 16 July (4 days)	Week 2 19 – 23 July (5 days)	Week 3 26 – 30 July (5 days)	Week 4 02 – 06 August (5 days)	Week 5 10 – 13 August (4 days)	Week 6 16 – 20 August (5 days)	Week 7 23 – 27 August (5 days)	Week 8 30 Aug. – 03 Sept (5 days)	Week 9 06 – 10 Sept (5 days)	Week 10 13 – 17 Sept (5 days)	Week 11 20 – 23 Sept (4 days)	
CAPS topic	(CAPS pg. 25) Tools and equipment											
Concepts, skills and values	Safety: associated with electrical hand-held equipment according to the Occupational Health Act (OHS). Advanced electrical tools: parts, function and maintenance: chain saw, angle grinder, bench grinder, cut-off machine, pedestals drilling machine, guillotine, electrical hand drill				Equipment: animal handling facilities: identification, application, parts and maintenance: cattle kraals, weigh bridge, dip facilities, crush pen, neck clamp, immobilizer, dehorning equipment, hot branding equipment, syringes.			Secondary crop cultivating implements/equipment: identification, working and application: planter, tiller, cultivator, rotavator, fertilizer applicator equipment, spraying equipment, knapsack spray, boom spray and drones.			Revision/Consolidation	
Requisite pre-knowledge	Link with Grade 10											
Resources (other than textbook) to enhance learning	Past examination papers		Past examination papers	Past examination papers		Past examination papers						Previous exam papers/Revision tests/Tutoring
Informal assessm; remediation	Questions from past papers, tests, practical work		Questions from past papers, tests, practical work	Questions from past papers, tests, practical work		Questions from past papers, tests, practical work						
SBA (Formal Assessment)										TASK 4: TEST (100%) Minimum of 100 marks		

TERM 4: (47 days)	Week 1 05 – 08 October (4 days)	Week 2 11 – 15 October (5 days)	Week 3 18 – 22 October (5 days)	Week 4 25 – 29 October (5 days)	Week 5 01 – 05 November (5 days)	Week 6 08 – 12 November (5 days)	Week 7 15 – 19 November (5 days)	Week 8- 10 22 Nov – 08 Des FINAL EXAM
CAPS topic	(CAPS pg. 26) Irrigation and water supply							TASK 6: FINAL EXAMINATION (50 %)
Concepts, skills and values	<i>Water pumps:</i> identification, construction, working and application: electrical submersible pump, jet pump, rotary pump, centrifugal pump,			<i>Water pipes:</i> identification and application: poly vinyl chloride (PVC), galvanize, aluminium, concrete, copper, <i>Water sources:</i> identification and associated laws: rivers, wells, streams, <i>Water storage:</i> identification and building: tanks, dams, reservoirs.			Revision/Consolidation	<p style="text-align: center;">PAPER</p> <p>Marks: 200 Time: 3 hours <i>Learners must answer all 6 questions.</i></p> <p>Section A: Question 1 (40 marks)</p> <ul style="list-style-type: none"> Short questions, objective questions e.g. MCQ, terminology, columns/statements and items (40 marks) – covers all content areas <p>Section B:</p> <ul style="list-style-type: none"> Question 2(35 marks): Structural materials and related drawings, measurements and safety Question 3(20 marks): Electric energy and related tools, materials and safety Question 4(35 marks): Skills and construction processes and related tools, materials, drawings, measurements and safety Question 5(40 marks): Tools, implements and equipment and related tools, materials, drawings, calibrations and safety Question 6(30 marks): irrigation and water supply, related tools, materials, drawings, measurements and communication <p style="text-align: center;">See CAPS for Cognitive levels</p>
Requisite pre-knowledge	Link with Grade 10							
Resources (other than textbook) to enhance learning	Past examination papers			Past examination papers			Previous exam papers/Revision tests/Tutoring	
Informal assessm; remediation	Questions from past papers, tests, practical work			Questions from past papers, tests, practical work				
SBA (Formal Assessment)	PAT (Task 5) must be finished in this term (2 weeks before the final examination). Marks must be awarded according to the guidelines provided for the final product. Preparation for Task 6: Final Examination (SBA: 25%, PAT: 25%, FINAL EXAMINATION: 50%)							