

Quarter1 (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. 14) Safety					(CAPS pg. 15) Structural materials				
Concepts, skills and values	<i>OHS Act</i> : introduction to the OHS Act: familiarize the learners with relevant workshop practices and regulations applicable to the farm workshop so that they can conduct themselves appropriately in the workshop: protective clothing, ear protection and eye protection.	General workshop rules: safety when working on or under a motor vehicle in the workshop, injuries in the workshop (cuts, bruises, eye injuries, burns and bone fractures).	Electrical safety: general electrical safety rules; situations that can cause electrical shock to workers; actions that should be taken to secure the person that has sustained an electrical shock; reduce the risk of electrical injury with overhead power lines reduce the risk of contact with overhead power lines.	Fire prevention: fire prevention rules, discovering a fire, emergency evacuation, fire extinguishers, how to use a fire extinguisher, when to use a fire extinguisher, types of fire extinguishers, fire extinguishing chart. 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 metals</i> : mild steel identification and uses of mild steel products: beams, purlines, square tubing, square bar, lip channel, angle iron, round tubing, and round bar, corrosion: types and protection against corrosion: hardening and softening of steel, tempering, annealing and case hardening.	Timber: Timber used on the farm: uses and properties of: pine, wattle, blue gum, poplar, and meranti, protection of timber products: timber, posts/poles beams, timber doors: types, construction and uses	<i>Building</i> : basic components of a concrete mixture: cement, sand, stone/aggregate, water, and cement bricks, building mixtures: concrete, mortar and screed	Fencing: <i>types of wire, fences and netting</i> : sheep, cattle, game, <i>types of wire strands</i> : barb wire, binding wire, galvanized steel wire, <i>type of wire netting</i> : bonnox, jackal proof, chicken mesh. Components of a fence: <i>posts</i> : types and uses, <i>droppers</i> : types and uses, <i>anchors and supports</i> : types, uses and basic sketching, <i>gates</i> : placing, erecting and basic sketches.		
Requisite pre-knowledge	Link with Grade 8 and 9 Agricultural studies									
Resources (other than textbook) to enhance learning	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations
Informal assessm; remediation	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests
SBA (Formal Assessment)	<i>First part of PAT must be handed out to the learners.</i>		RESEARCH TASK 1:	<i>Learners must start with the second part of the PAT (manufacturing) of the PAT project/product. (Four half-hour periods must be allocated for this per cycle/week.)</i>					TASK 2: TEST (75%) Minimum 100 marks	

Quarter 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. 17) Energy			(CAPS pg. 17) Construction processes							
Concepts, skills and values	<i>Electrical energy:</i> 12 Volt DC current: <i>basic principles of electrical energy:</i> Current, amperes, resistance and potential difference, standard symbols and units as applicable to DC circuits, basic calculations	Basic components in a basic electrical ignition system of a motor vehicle - working, function and problem solving: battery, ignition coil, distributor, spark plug, ignition timing	Basic components of the electrical circuit of a motor vehicle: fuses, lights, wires, trailer coupling plug for vehicles (male and female plugs).	Arc welding: safety, protective clothing, hazards associated with arc welding, arc <i>welding machine:</i> basic construction, and working, arc welding electrodes, basic arc welding principle, welding defects	Soft soldering: application and methods, equipment used, types of solders, fluxes, safety.	Hard soldering: brazing: application and method, equipment used, type of welding rod, fluxes, safety.	Revision/Consolidation				
Requisite pre-knowledge	Link with Grade 8 and 9 Agricultural studies										
Resources (other than textbook) to enhance learning	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Internet/Videos/Practical demonstrations	Previous exam papers/Revision tests/Tutoring
Informal assessm; remediation	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	Past examination papers/Tests/Practical tests	
SBA (Formal Assessment)											TASK 3: TEST (100%) Minimum of 150 marks

Quarter 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. 19) Tools and equipment												
Concepts, skills and values	Tools, equipment, implements and mechanized systems, basic hand tools used in workshop: <i>saws</i> : hack saw and junior saw, <i>hammers</i> : ball pane, soft face and rubber, <i>punches</i> : centre, and flat nose, <i>cold chisels</i> : flat, cross-cut and round nose, <i>screw drivers</i> : star (Phillips) and flat point, <i>pliers</i> : combination, long nose, round nose, vice grip and water pump, <i>drills</i> : hand <i>drill bits and reamers</i> : iron, wood and concrete, <i>measuring and marking</i> : squares, scribes, chalk, measuring tape, venire, calliper, callipers, micrometre and combination set, <i>files</i> : profiles, <i>tin snips</i> : various types, <i>riveting</i> : pop riveting; and rivets, <i>spanners</i> , ring, combination, open end, socket, pipe wrench, and shifting, <i>Allen keys</i> : function.				Horticulture cultivation tools: identification, function: <i>garden tools</i> : spade fork and rake, power <i>tools</i> : lawn mower and brush cutter, animal drawn implements: plough, planter, basic primary cultivation implements: parts, function and maintenance: plough, ripper, disk, offset, wonder tiller, disk plough			Engines: working, construction and components: 2-Stroke, 4-stroke petrol and diesel; <i>Service of engines</i> : ignition, cooling, lubrication, braking, oil- air cleaning; vehicle components/parts; and <i>engine systems</i> : lubrication and temperature control of engines.				Revision/Consolidation	
Requisite pre-knowledge	Link with Grade 8 and 9 Agricultural studies												
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 4: TEST (100%) Minimum of 100 marks												

Quarter 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 EXAMINATION	
CAPS topic	(CAPS pg. 20) Irrigation and water supply						Revision	TASK 6: FINAL EXAMINATION (50 %)	
Concepts, skills and values	<i>Basic water pumping methods:</i> working, construction and components: windmill, water tower, power head. <i>Micro irrigation systems:</i> working, construction and components: micro spray irrigation, drip irrigation.				Water supply to animals: construction and safety principles, troughs, valves, connection pipes, reservoirs.		Revision/Consolidation	<p>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 <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>See CAPS for Cognitive levels</p>	
Requisite pre-knowledge	Link with Grade 8 and 9 Agricultural studies/Previous content								
Resources (other than textbook) to enhance learning	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		
SBA (Formal Assessment)	<i>PAT (Task 5) must be finished in this term (2 weeks before 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%</i>								