2024 - 2027

APPLIED VOCATIONAL CERTIFICATE IN

### **AGRIBUSINESS**



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### **AVC Agribusiness Syllabus Content**

### Applied Vocational Certificate Programme

The Applied Vocational Certificate (AVC) programme is designed to emphasize the practical application of vocational subjects, providing students with hands-on experience directly related to the workplace. This programme is aligned with the Malta Qualifications Framework (MQF) and offers a final certification at MQF Level 3, with exit points at MQF Levels 1 and 2. To earn the final certificate, candidates must complete all three units over the secondary cycle and meet the requirements for coursework and controlled assessments as outlined in the specific subject syllabi.

The AVC programme focuses on equipping candidates with both theoretical knowledge and practical skills relevant to specific industries, preparing them for future employability or education. This skills-based approach ensures that students develop the competencies necessary for the workforce while also providing a clear pathway for academic progression. The programme supports continuous learning, with opportunities to advance to post-secondary institutions that offer courses at MQF Levels 1-3, and potentially even higher, such as MQF Level 4. Recognized and accredited by various educational institutions, the AVC programme represents a vital step in the lifelong learning journey, aligning with both industry needs and educational standards.

Spanning over three scholastic years (Years 9, 10 and 11) and comprising 10 credits, the AVC programme fosters the development of technical and vocational skills in specific industries. This structure supports the holistic growth of candidates, preparing them not only for future employment but also for future academic pursuits in line with this policy's objectives and the relevant subject syllabi.

### **Subject Programme**

The AVC Agribusiness programme is split into 3 units where many areas of the Agribusiness sector are studied within each unit. This format contributes to a spiral study programme which allows students to mature in the subject, over the course of the 3 years studying the subject, as well as it permits to expose learners to a broader approach and taste as many different topics as possible. The units are split as per list below.

Year 9 – Unit 1 - Introduction to Agribusiness – consists introductory plant and crop production. Basic fish and pet care. This unit also takes into consideration health and safety.

Year 10 – Unit 2 - Gardens and animal care – consists of basic gardening and landscaping. Work on Animal health and grooming is done together with basic aquascaping. Students will be introduced to animal husbandry (poultry) and apiculture.

Year 11 – Unit 3 - Agricultural production and processing – here the subject focuses the cottage industry as a result of activities done in fields, greenhouses, rabbitries, chicken coops and the apiary.

**Class activities involved:** Work involved with farm animals, fish and plants. Processing and preparation of agricultural products. Caring and breeding of animals. Lots of group work. Presentations and discussions.

Homework assigned: Consolidation exercises. Part of an assignment may be given as HW.

### **Programme Learning Outcomes**

**Knowledge** – at the end of the module the learner will have acquired the practical and theoretical understanding to:

- Recite given procedures for basic plant production.
- Explain the importance of following given procedures for basic plant production.
- Explain given propagation techniques.
- Recite the application for specific plant growth media.
- Explain procedures related to the upkeep of given plants.
- List horticultural tools.
- Describe the correct and safe use of horticultural tools.
- List various irrigation tubing and fittings used in irrigation.
- Explain procedures utilized in setting up irrigation systems.
- Explain the various procedures involved in landscaping.
- Recite given fertilizer application methods.
- Explain procedure to use in case of equipment failure.
- Recite given health and safety procedures whilst using equipment.
- Explain given elements associated with meeting the basic needs of given pets.
- Explain critical given elements one should look for to determine the overall well-being of given animals.
- Explain the 5 freedoms associated with rearing of animals.
- List the proper feeds, feeding equipment and drinking equipment used in rearing animals for food production.
- Describe good practices in hygiene and bio-security measures on a farm.
- Recall processes involved in the production of given new livestock.
- Explain the given procedure to grow out livestock to given life stages.
- Recite how given veterinary medicinal products are administered.
- Describe the method used in conducting a basic veterinary health assessment for given animals.
- Recall protocols used to maintain animal grooming tools and equipment.
- Explain given methods involved to conduct introductory animal grooming tasks.
- Recite main elements of given checklist associated with maintaining a healthy fish tank.
- Explain main characteristics to ensure maintaining a healthy fish tank.
- List aquarist equipment required for a fish tank.
- Recite the tools and materials required to carry out aquascaping tasks.
- Recite the components of a beehive.
- List the required tools and PPEs used in apiculture.
- Recite the protocol utilized during a bee-hive inspection.
- List a range of profitable cottage industry products.
- Recite steps involved in producing a given range of cottage industry products.

### **Skills** – at the end of the module the learner will have gained the expertise to:

- Practice following given procedures for basic plant production.
- Demonstrate ability to propagate plants using different methods.
- Demonstrate good practices related to the upkeep of given plants.
- Demonstrate ability in using horticultural tools correctly and safely.
- Practice procedures in setting up given irrigation systems.
- Demonstrate ability to follow procedures involved in landscaping.

- Practice given fertilizer application in a controlled environment.
- Practice safe upkeep of equipment and related monitoring processes.
- Identify the basic needs of given pets.
- Practice tasks associated with meeting the basic needs of given in a controlled environment.
- Demonstrate good practice related to proper feeds, feeding equipment and drinking equipment used in rearing animals for food production in a controlled environment.
- Demonstrate good practice in hygiene and bio-security measures on a farm.
- Demonstrate ability to produce new livestock in a controlled environment.
- Demonstrate ability to grow out livestock to given life stages in a controlled environment.
- Demonstrate ability to plan and conduct a commercial rabbit breeding programme in a controlled environment.
- Administer the required, given medicinal products in animal husbandry in a controlled environment.
- Conduct a basic health assessment for given animals in a controlled environment.
- Demonstrate ability to maintain animal grooming tools and equipment.
- Demonstrate ability to conduct introductory animal grooming tasks within a controlled environment.
- Demonstrate ability to maintain a healthy fish tank in a controlled environment.
- Show proficiency in using various aquarist equipment required for a given fish tank.
- Utilize the tools and materials necessary to carry out aquascaping tasks in a controlled environment.
- Demonstrate ability to set-up a beehive.
- Demonstrate ability to conduct introductory apicultural tasks within a controlled environment.
- Demonstrate ability to select a range of viable cottage industry products.
- Practice steps involved in producing a range of cottage industry products.

**Responsibility and Autonomy** – at the end of the module the learner will have acquired the responsibility and autonomy to:

- Demonstrate responsibility by adhering to appropriate given horticultural techniques.
- Demonstrate responsibility by adhering to given health and safety protocol.
- Demonstrate ethical responsibility appreciation of nature and animal life.
- Demonstrate responsibility to maintain the animal 5 freedoms.
- Demonstrate ability to work effectively in a team on given tasks.
- Demonstrate responsibility to adhere to a farm bio-security protocol.
- Demonstrate autonomy to produce a value-added cottage industry product.
- Demonstrate ability to reflect on one's work and commitment to continuous improvement.

### **Unit Learning Outcomes**

### Year 9 - Unit 1 - Introduction to Agribusiness

Learning Outcome 1: I can follow procedures for basic plant production.

Learning Outcome 2: I can propagate plants using different methods.

Learning Outcome 3: I can undertake proper fish keeping tasks to maintain a healthy fish tank.

Learning Outcome 4: I can meet the basic needs of an avian and a mammalian pet.

### Year 10 - Unit 2 - Gardens and Animal care

Learning Outcome 5: I can undertake tasks in gardening and landscaping under supervision.

Learning Outcome 6: I can fully set-up and maintain an aquarium.

Learning Outcome 7: I can conduct tasks involving pet health and grooming under supervision.

Learning Outcome 8: I can conduct introductory tasks in Apiculture.

Learning Outcome 9: I can follow instructions to conduct tasks required for poultry farming.

### Year 11 - Unit 3 - Agricultural Production and Processing

Learning Outcome 10: I can undertake tasks related to a honey beehive inspection under supervision.

Learning Outcome 11: I can produce a number of cottage industry products.

Learning Outcome 12: I can produce a range of agricultural crops.

Learning Outcome 13: I can follow instructions to conduct tasks required for rabbit farming.

### **Assessment**

As part of student assessment, during each year of studying the subject, a minimum of 2 assignments as part of teacher set assessment and a controlled assignment that is centrally set will be provided. Additionally, each practical task indicated within the list of assessment criteria will be followed by filling of a self-reflection sheet (see teachers' pack supplement). All mentioned tasks are considered as coursework and all students should do their utmost to complete all tasks satisfactorily.

Year	Year Teacher set assignments Controlled assignments		Self -reflection journal
9	70 – 90% of Yr9 marks	10 – 30% of Yr9 marks	5% of year 11 marks
10	70 – 90% of Yr10 marks	10 – 30% of Yr10 marks	5% of year 11 marks
11	50 – 70% of Yr11 marks	10 – 30% of Yr11 marks	10% of year 11 marks

Due to a 100% coursework-based assessment, the role of Internal Verification and of Moderation is indispensable and hence, each assignment brief shall be accompanied by an assessment front sheet (see teachers' pack supplement) and a rubric or a detailed marking scheme. All coursework assignment briefs, front sheets and rubrics and/or marking scheme shall be internally verified before the assignment is distributed to candidates. This importance is being extended to marking, including, the self-evaluation journal where all marks will be internally verified prior to publishing. Despite the self-evaluation component being cumulative for Year 11 marks only, correction and publishing of marks MUST be completed within school year corresponding the practical assessment criteria and marks to be recorded in school's marks database. This whole assessment process will be documented within the Agribusiness year cohort subject file in preparation for moderation.

### **Programme Certification**

Upon completion of the three-year programme, candidates will receive a certificate and a certificate supplement indicating the MQF Level achieved. Each applied vocational subject within the AVC programme is structured to be qualified at MQF Level 3, with possible exit points at MQF Level 2 or MQF Level 1. The final qualification level depends on the total marks obtained by the candidate over the three years (with a maximum of 300 marks) as indicted in the table below.

Award	Marks throughout the Subject	Grade
	270–300	1
	240 – 269	2
MQF Level 3	210 – 239	3
	180 – 209	4
	150 – 179	5
MQF Level 2	120 – 149	6
	90 – 119	7
MQF Level 1	60 – 89	8
	0 – 59	Fail

Candidates who are absent for an entire year of the programme can qualify up to a maximum of MQF Level 2, while those absent for two full years can qualify up to a maximum of MQF Level 1.

### **Quality Assurance**

Assessment is a fundamental component of the learning process. It provides candidates with feedback on their progress and achievements while adhering to key standards of reliability, validity, and fairness. To maintain these standards, it is crucial to follow established rules and procedures. The assessment guidelines ensure that all evaluations are:

- Aligned with the appropriate standards, quality, and level.
- Fair and equitable to all students.
- Valid and reliable.

In order to ensure quality, assignment briefs and assessment decisions undergo internal verification by the designated internal verifier. This process ensures that assessments align with the intended learning outcomes and comply with established policy procedures. Furthermore, moderation will be conducted each academic year by moderators that will evaluate candidates work based on a specified rubric and moderation criteria ensuring that work has been fairly, accurately and consistently graded. During both internal verification and moderation, candidates marks are subject to change.

### LIST OF TOPICS

### Year 9 – Unit 1 – Introduction to Agribusiness

Topic 1: Follow procedures for basic plant production.

Topic 2: Propagate plants using different methods.

Topic 3: Undertake proper fish keeping tasks to maintain a healthy fish tank.

Topic 4: Meet the basic needs of an avian and a mammalian pet.

### Year 10 - Unit 2 - Gardens and Animal care

Topic 5: Gardening and landscaping.

Topic 6: Setting-up an aquarium.

Topic 7: Petcare.

Topic 8: Introductory Apiculture.

Topic 9: Poultry farming.

### Year 11 - Unit 3 - Agricultural Production and Processing

Topic 10: Undertake tasks related to a honey beehive inspection.

Topic 11: Cottage industry production.

Topic 13: Crop production.

Topic 14: Rabbit farming.

### ASSESSMENT CRITERIA













# Year 9 Assessment Criteria

**Topic 1:** Follow procedures for basic plant production.

**Topic 2:** Propagate plants using different methods.

**Topic 3:** Undertake proper fish keeping tasks to maintain a healthy

fish tank.

**Topic 4:** Meet the basic needs of an avian and a mammalian pet.

Topic 1: Follow procedures for basic plant production. (24 marks)

	General Criterion	Recognise tools, equipment, PPEs and safety	signs utilised within an Agribusiness sett	ing. (4 marks)		
K-1	Sub-criteria	Identify <b>ONE</b> tool and <b>ONE</b> piece of personal protective equipment that are used in an agribusiness enterprise. (1 mark)	Match <b>FOUR</b> pieces of personal protective equipment to their functions. (1 mark)	Recognise <b>FOUR</b> Health and Safety signs used in agricultural activity. (2 marks)		
	Content	Tools: hoes, rake, spade, pocketknife, dibber, pruning shears, saw, hedge shears.  Personal protective equipment: safety shoes, wellingtons, garden gloves, safety goggles, respirator, nitrile gloves, hazmat suit, sun hat.		Health and Safety signage: flammable, corrosive, environmental hazard, irritant, toxic, health hazard.		
	General Criterion	Discuss the use of various irrigation fittings an	d tubing diameters used in an irrigation s	system. (4 marks)		
K -2	Sub-criteria	Identify <b>ONE</b> irrigation fitting and <b>ONE</b> irrigation emitter. (1 mark)	Match <b>FOUR</b> irrigation fittings to their application. (1 mark)	Discuss why different tubing diameters are normally used in an irrigation system. (2 marks)		
	Content	Irrigation fittings: Socket, Tee, Elbow, End cap, Gromet ball-valve, Threaded ball-valve, Gate valve, Stop-cock.  Emitters: Drip emitter, Drip tape, Drip tubing, Agricultural sprinkler, Garden sprinkler.				
	General Criterion	Explain preventive measures required for maintaining a safe work environment and how to practice basic first aid. (6 marks)				
	Sub-criteria	Outline <b>TWO</b> preventive measures required for maintaining a safe work environment in a horticultural enterprise. (2 marks)	Describe the use of <b>TWO</b> items that should be present in a First Aid box. (2 marks)	Explain ways of dealing with <b>ONE</b> given injury. (2 marks)		
C -1	Content		First Aid box items: sterile adhesive dressings, triangular bandages, safety pins, sterile unmedicated dressings, sterile eye wash, surgical gloves, roller bandages, personal protection, shield for artificial breathing, gauze pads, scissors.	Dealing with injuries:  Burn: cool burn; apply sterile dressing, Cut: apply pressure on the area; apply sterile dressing, Poisoning: notice symptoms; try to identify poison, Electric shock: do not touch person; if possible, turn off source of electricity, Heat stroke: take reading of body temperature; apply cool water, Eye irritation: avoid rubbing eyes; flush with cool water.		

	General Criterion	Practice work to successfully grow a full row of plants from seed to maturity. (10 marks)					
S	Sub-criteria	Form a straight ridge with a furrow on each side in soil using appropriate tools and PPEs. (3 marks)	Practice routine work that is required in a field or garden. (3 marks)	Successfully grow a tray of seedlings. (4 marks)			
A-1	Content	Tools: Hoe and/or shovel hoe and/or fork hoe and/or stringline.  NB: Furrow needs to be straight and at least 5m long. Marking is to be awarded uniformly per bullet: Correct tools, Correct use of tools, Exemplary work.	Routine work:  De-weeding and/or tilling and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or re-potting followed by proper watering.  NB.  Award 1 mark for any <b>THREE</b> tasks from the above in which students demonstrates proper acquisition of skill.	Marking is to be awarded uniformly per acquisition of skill:  - Filling tray with given medium and seeding appropriately.  - Topping tray and irrigating appropriately.  - Production of mature seedlings with a success rate of not less than 50%.  - Production of mature seedlings with a success rate of not less than 80%.  NB: Tray to be placed in appropriate location with appropriate conditions. Otherwise, all marks for this criterion will be lost.			

NB: All **THREE** tasks must be conducive to the production of the same full row (min. 5m) of plants. Not using all PPEs will result in loss of all marks and this protocol is to proceed throughout the programme. It is important that seedlings are transplanted upon maturity since overgrown seedlings should be discarded.

Topic 2: Propagate plants using different methods. (22 marks)

	General Criterion	Describe the processes involved in different p	propagation techniques. (4 marks)	
	Sub-criteria	Mention the <b>TWO</b> types of germination. (1 mark)	Outline <b>TWO</b> conditions required for optimum propagation of plants. (1 mark)	Describe <b>TWO</b> propagation techniques used for different plants. (2 marks)
К-3	Content	Types of germination: Epigeal, Hypogeal.	Conditions for optimum plant propagation:  - Sheltering - water availability (assuming water is of good quality) - temperature - humidity - free from pathogens and pests - suitable growing medium.	Propagation of plants: Seeding, stem cutting, stem tuber cutting, rhizome cutting, grafting, layering, runners, bulb, leaf.
	General Criterion	Describe the processes involved in different p	propagation techniques. (4 marks)	
K-4	Sub-criteria	List <b>TWO</b> types of media used for plant propagation and growth. (1 mark)	State suitable growth media for <b>TWO</b> different applications, applied to a specific example, in horticulture. (1 mark)	List <b>ONE</b> advantage and <b>ONE</b> disadvantage for <b>TWO</b> given growth media. (2 marks)
	Content	Media: peat, compost, coconut coir, soil, expanded clay, rockwool®, vermiculite, perlite, horticultural sand.	Applications:  - Open field production - Production of seedlings - Potting - Hydroponics	Advantages and disadvantages:  - Water drainage - Pathogen free - Pest free - Nutrient holding capacity - Aeration - Price - Sustainability
	General Criterion	Describe processes and benefits of grafting p	lants. (4 marks)	
	Sub-criteria	List <b>TWO</b> tools and materials required to graft a plant. (1 mark)		Describe <b>TWO</b> benefits of grafted plants. (2 marks)
K -5	Content	Tools and materials: - grafting knife - pruning saw - grafting tape - grafting paint - grafting clips - secateurs - Healthy rootstock and scion - Sanitation equipment.	Considerations:  - suitable season for plant of choice - correct match of scion and root stock - suitable grafting technique for plant of choice	Benefits of grafted plants:  - more vigorous growth - can be replicated - known performance (clone) - used to produce plants that thrive in specific environmental conditions.

	General Criterion Grow a number of cuttings by following the correct procedures. (10 marks)					
	Sub-criteria	Use the correct tools and procedure to take viable cuttings. (3 marks)	Use the correct procedure to plant a number of cuttings (3 marks)	Successfully grow a number of cuttings. (4 marks)		
A-2	Content	Marking is to be awarded uniformly per acquisition of skill:  - Sanitization of tools - Proper utilisation of tools Taking of correct cuttings from a healthy mother plant.	Marking is to be awarded uniformly per acquisition of skill:  - Select the appropriate container according to the type of cutting.  - Select the appropriate media according to the type of cutting.  - Correct orientation of cutting.  NB: A minimum of 10 cuttings per student is suggested.	Marking is to be awarded uniformly per acquisition of skill:  - Fill container with media and cutting as required for specific plant.  - Regular watering as required for specific plant.  - Production of new plant via cutting with a success rate of not less than 50%.  - Production of new plant via cutting with a success rate of not less than 80%.		

Topic 3: Undertake proper fish keeping tasks to maintain a healthy fish tank. (20 marks) - CONTROLLED

	General Criterion	Outline fish species and their habitats in relation to water parameters. (4 marks)					
	Sub-criteria	Match <b>FOUR</b> fish species to their respective habitat. (1 mark)	List <b>TWO</b> water parameters that should be monitored to keep a healthy fish tank. (1 mark)	Outline <b>TWO</b> fish habitats in relation to water parameters. (2 marks)			
К -6	Content	Fish species: koi, goldfish, African cichlids, angel fish, mollies, guppies, tetras, clown fish, sea bream.	Water parameters: ammonia, nitrites, nitrates, pH, hardness, phosphates, salinity.	Fish habitats:  - cold fresh water - tropical planted fresh water - tropical stone-scape fresh water - brackish - marine Mediterranean - marine tropical.			
	General Criterion	Discuss the importance of routine work acco	rding to aquarium size and décor. (6 marks)				
	Sub-criteria	Justify the size of a given aquarium for <b>ONE</b> given fish species. (2 marks)	Explain <b>TWO</b> benefits of water change of a fish tank. (2 marks)	Discuss the importance of <b>ONE</b> aquarium décor item in relation to fish health of a given species. (2 marks)			
C -2	Content	Justification based on <b>TWO</b> points from:  - Size or fish and/or  - Aggression of fish species and/or  - Fish morphology and/or  - Species swimming/schooling pattern.	Benefits: - reduction of pollutants - replenish trace minerals - control water clarity - removal of debris.	<u>Décor items:</u> Substrate, Rocks, Plants, Caves.			
	General Criterion	Conduct routine aquarist tasks. (10)					
	Sub-criteria	Give the right quantity of the right feed to fish in a running fish tank. (3 marks)	Record water parameters for a given fish tank. (3 marks)	Conduct a water change for a running fish tank. (4 marks)			
A -3	- Content	<ul> <li>Selection of correct feed for given fish tank.</li> <li>Correct amount of fish feed.</li> <li>Proper feeding technique.</li> </ul>	- <u>Water parameters:</u> Chlorine, Nitrates, Nitrites, pH, Water hardness, Temperature.	<ul> <li>Marking is to be awarded uniformly per acquisition of skill:</li> <li>Remove a suitable amount of water using appropriate tools.</li> <li>Measure and dose the correct water additive.</li> <li>Top-up water to appropriate level.</li> <li>After teacher has switched back on electrical items, check that all components and décor are in the appropriate condition.</li> </ul>			

NB: Throughout Application, students must be wearing non-slip shoes, tie back any long hair and not be wearing any garments that can hang in the water. Teacher must ensure that before students do any work, electrical supply to fish tank is switched off and returned only after water change. Any students deviating from the above will not be allowed to conduct practical tasks and not awarded any marks for this practical.

Topic 4: Meet the basic needs of an avian and a mammalian pet. (34 marks)

	General Criterion	Outline accommodation and diets for diffe	rent mammalian pets. (4 marks)	
K -7	Sub-criteria	List <b>TWO</b> common mammalian pets kept in Malta. (1 mark)	Identify <b>TWO</b> types of accommodation for common mammalian pets in Malta. (1 mark)	Outline a diet for a mammalian pet through <b>ONE</b> life stage. (2 marks)
	Content	Mammalian pets: dogs, cats, rabbits, horses, guinea pigs, hamsters	Accommodations: kennels, dog/cat transport cage, rodent cages, hutches, stables.	<u>Life stages:</u> new-born, weaner, junior, adult, senior.
	General Criterion	Outline accommodation and diets for differ	rent avian pets. (4 marks)	
K -8	Sub-criteria	List <b>TWO</b> common avian pets kept in Malta. (1 mark)	Identify <b>TWO</b> types of accommodation for common avian pets in Malta. (1 mark)	Select the appropriate feed for FOUR given avian pets. (2 marks)
	Content	Avian pets: parakeets and parrots, doves and pigeons, finches and true finches, fancy poultry and game, birds of prey.	Accommodations: bird cages, parrot/ parakeet cages, aviaries, coops, dove/pigeon pens and lofts.	
	General Criterion	Discuss criteria to be considered in order t	o maintain ideal pet health. (6 marks)	
C -3	Sub-criteria	Indicate the ideal environmental conditions required to keep a given mammalian pet and a given avian pet. (2 marks)	Describe factors that determine the number of a given pet that should be kept in a given cage/housing. (2 marks)	Discuss <b>ONE</b> criterion that should be considered when designing a record-keeping sheet for feeding and vaccination of a given pet. (2 marks)
	Content	Environmental conditions: Length of day; Temperature; No draft; No stress from other animals	<u>Description to be based upon the points:</u> Size of pet; Natural behaviour of pet.	Records: ID(Name), age and breed; Feeds given; Vaccines administered; Dates for entries.
	General Criterion	Conduct routine tasks to keep mammaliar	pets. (10 marks)	
	Sub-criteria	Clean the cage/housing of a given mammalian pet. (3 marks)	Give the right quantity of feed to a given mammalian pet according to the given life stage. (3 marks)	Use the correct procedure for handling a given mammalian pet. (4 marks)
A -4	Content	<ul> <li>Marking is to be awarded uniformly per acquisition of skill:</li> <li>Cleaning of walls and/or floor and/or wire appropriately.</li> <li>Cleaning of feeders appropriately.</li> <li>Cleaning and replenishment of drinkers appropriately.</li> </ul>	Marking is to be awarded uniformly per acquisition of skill:  - Select suitable food for given pet.  - Weigh/measure suitable amount of feed.  - Loading feeder and placing appropriately.	<ul> <li>Marking is to be awarded uniformly per acquisition of skill:         <ul> <li>Safe and comfortable handling for pet where animal is neither harmed nor stressed unnecessarily.</li> </ul> </li> <li>NB: award 1 mark if student requires assistance from classmate; award 2 marks if student requires no assistance.         <ul> <li>Safe and comfortable handling for candidate.</li> </ul> </li> <li>NB: award 1 mark if student handles animal but with limited confidence; award 2 marks if student shows exemplary skill in handling given pet.</li> </ul>

	General Criterion	Conduct routine tasks to keep avian pets. (10 marks)					
	Sub-criteria	Clean the cage/housing of a given avian pet. (3 marks)	Give the right quantity of feed to a given avian pet according to the given life stage. (3 marks)	Use the correct procedure for installing a nesting box. (4 marks)			
A -5	Content	Marking is to be awarded uniformly per acquisition of skill:  Cleaning of walls and/or floor and/or wire and/or nest boxes appropriately and when necessary.  Cleaning of feeders appropriately.  Cleaning and replenishment of drinkers appropriately.	Marking is to be awarded uniformly per acquisition of skill:  - Select suitable food for given pet.  - Weigh/measure suitable amount of feed.  - Loading feeder and placing appropriately.	<ul> <li>Correct nest box according to bird species</li> <li>Correct positioning of box and secure installation</li> <li>Provision of nesting material.</li> </ul>			













### Year 10 Assessment Criteria

Topic 5: Gardening and landscaping.

**Topic 6:** Setting-up an aquarium.

**Topic 7:** Petcare.

**Topic 8:** Introductory Apiculture.

**Topic 9:** Poultry farming.

Topic 5: Gardening and landscaping. (28 marks)

	General Criterion	Identify sustainable garden types suitable	for the Mediterranean	climate and correspondi	ng plants. (2 marks)
K -9	Sub-criteria			Name <b>TWO</b> plants suitable for a given garden type. (1 mark)	
	Content	Common sustainable garden types for the Mediterranean climate: rock, roof, wall, orchard, xeriscape, herb, Maltese indigenous.			
	General Criterion	Identify the importance of soil nutrients an	d organic matter. (2 ma	arks)	
	Sub-criteria	List <b>ONE</b> types of fertiliser and <b>ONE</b> macro	nutrient. (1 mark)	Explain <b>ONE</b> benefit of	organic matter in soil. (1 mark)
K -10	Content	Manura elow release organic soluble		Benefits of organic matter in the soil bed: improves water holding capacity; improves soil aggregation; increases microbial activity; reduces soil erosion.	
	General Criterion	Produce a Sketch for a given garden site. (6 marks)			
C -4	Sub-criteria			Sketch an irrigation system according to given specifications. (3 marks)	
C -4	Content	Simple design: Hand drawn or digital or superimposed on a given photo; Mix of trees, shrubs, perennials and seasonals.		Simple sketch/line diag fittings super imposed	gram with labelling of irrigation on copy of garden design.
	General Criterion	Conduct tasks pertaining to landscaping. (8	3 marks)		
A - 6	A - 6  Sub-criteria  Transplant a number of plants in a garden area according to a given site. (3 marks)  Practice techniques for creating ridges ('konket the plants transplanted area. (3 marks)		for raising soil beds and ca' + 'gefun') around ed in your garden	Lay an irrigation system for your garden area as per given plan. (2 marks)	
	General Criterion	Practice routine work that is important for	garden upkeep. (10 ma	nrks)	
A -7	Sub-criteria	Prepare pruning tools for use and storage. (1 mark)	Maintain a given gard of time under superv	len area over a period ision. (6 marks)	Conduct a given pruning task under supervision. (3 marks)
	Content		<b>NB.</b> Garden area <b>MU</b> minimum period of <b>S</b>	ST be maintained for a SIX weeks.	

Topic 6: Setting-up an aquarium. (12 marks)

	General Criterion	List equipment and materials that are comm	nonly utilised in an a	quarium. (2 marks)	
K - 11	Sub-criteria	List <b>TWO</b> different pieces of life support/hab used in an aquarium. (1 mark)	itat equipment	List <b>TWO</b> different décor items used in an aquarium. (1 mark)	
	Content	Equipment: Internal filter, external filter, air pump/power head, heater, lighting, chiller.	oump, water	<u>Décor items:</u> Rocks, gr synthetic plants, live p	ravel, aquarium soil, sand, driftwood, lants.
	General Criterion	Identify styles, tools and materials relevant t	o aquascaping. (2 r	narks)	
	Sub-criteria	Name <b>TWO</b> aquascaping styles. (1 mark)		List <b>ONE</b> aquarium ma aquascaping tools/sup	nintenance tools/supplies and <b>ONE</b> oplies. (1 mark)
K - 12	Content	Aquascaping styles: jungle, biotype, iwagum	ni, Dutch,	Maintenance tools/su	oplies:
K-12		Taiwanese, nature.		solution, glass cleaner	n, test strips/kit, net, dechlorinator
				Aquascaping tools:	hatesta flattara e al casa a consulta
				Scissors, tweezers, substrate flattener, algae scraper, fertiliser solution/tabs, glue.	
	General Criterion	Undertake tasks leading to a healthy fish tank	that is visually plea	asing. (8 marks)	
	Sub-criteria	Set-up an aquarium with the necessary equipment and décor. (3 marks)	Prepare an aquarion to host the given b	um to make it suitable iota. (2 marks)	Maintain an aquarium for a period of time. (3 marks)
	Content	Décor:	Important tasks:		Important tasks:
		Minimum 2 items Equipment: Equipment must have a means of:	Filling with water, itesting, acclimation given biota.	inoculation, water on, introduction of	Feeding, monitoring of equipment, monitoring of biota, water testing, water changes, cleaning filtration system,
A -8		Filtration, water circulation, temperature control, lighting, measuring temperature.			trimming of plants, tidying/changing place of décor.
					NB: Same tank per student is to be used for assessment purposes. A minimum of <b>THREE</b> entries are required for assessment of this task. Entries <b>MUST</b> be spread over a minimum of 30 days for visible and realistic changes occurring within the tank.
					It is being assumed that when student is not present, other staff will take over daily routine tasks relevant to tank.

Topic 7: Petcare. (22 marks) – **CONTROLLED** 

	General Criterion	Recite tools and coat types pertaining to anima	Recite tools and coat types pertaining to animal grooming. (2 marks)			
K -13	Sub-criteria	Name <b>TWO</b> basic tools used in animal grooming. (1 mark)	List <b>TWO</b> animal coat types. (1 mark)			
	Content	Basic tools used in animal grooming:	Different coat types:			
		clippers, brushes, furminators, scissors, nail trimmers.	hair, fur, wool, topcoat, under coat.			
	General Criterion	Recall PPEs and tools used for veterinary nursi	ng and animal grooming. (2 marks)			
K - 14	Sub-criteria	Name <b>TWO</b> PPEs utilised in animal grooming and veterinary nursing. (1 mark)	Name <b>TWO</b> tools/equipment utilised in veterinary nursing. (1 mark)			
K - 14	Content	PPEs:	Equipment:			
			Stethoscope, rectal thermometer, scissors, forceps, pen torch, veterinary table.			
	General Criterion	Recite facts relevant to animal diseases and conditions. (4 marks)				
	Sub-criteria	List ONE common pet health condition OR ONE common pet parasite OR ONE common pet disease and how to treat it. (1 mark)	Explain the importance of vaccinating an animal. (3 marks)			
	Content	Conditions:	To expect minimum answer on following points:			
K - 15		Dermatitis, Buck teeth, Sore hocks, Arthritis.	prevention of disease; controlling disease			
		Parasites:	transmission.			
		Intestinal worms, Fleas, Mange, Ear mites.				
		Diseases:				
		Parvo virus, Ear infections, Kidney disease, Cat's flu, Diabetes, Viral haemorrhagic disease, Coccidiosis.				

	General Criterion	Record results of an animal health check. (4	Record results of an animal health check. (4 marks)				
A - 9	Sub-criteria	Conduct a health check for a given animal using basic veterinary nursing equipment. (2 marks)	Record the results of an animal health checklist to assess overall health status a given animal. (2 marks)	of			
	Content	Health checklist: tail, skin, limbs, coat, eyes, nose, ears, paws, teeth.	Records:  To be entered in a given health check car with all relevant information.	d			
	General Criterion	Practice animal grooming techniques. (10 marks)					
A -10	Sub-criteria	Select the appropriate grooming tools for a given grooming task. (2 marks)	Conduct grooming of a given animal under supervision. (5 marks)	Maintain grooming tools appropriately. (3 marks)			
	Content		NB: Task to be done under supervision on a mammalian pet. Assistance from a fellow student is recommended.	Maintenance:  Clean and sanitise using appropriate suitable methods and materials.			

Topic 8: Introductory Apiculture. (14 marks)

	General Criterion	Identify the contents of a beehive. (4 marks)	Identify the contents of a beehive. (4 marks)				
K -16	Sub-criteria	List <b>TWO</b> apicultural products. (1 mark)	Name <b>FOUR</b> roles of a worker bee. (2 marks)	Identify <b>TWO</b> parts of a beehive. (1 marks)			
	Content	Apicultural products:	Roles:	Parts:			
		Honey, wax, pollen, bee bread, propolis, royal jelly, bee colonies.	Nurse bees, foragers, guards, builders, undertakers, cleaners.	Bottom board, Brood box, super box, brood frame, super frame, queen excluder, inner cover, feeder, top cover.			
	General Criterion	Identify apicultural tools and PPEs. (2 marks)					
	Sub-criteria	Match <b>FOUR</b> apicultural tools or equipment to their use. (1 mark)	Name <b>TWO</b> PPEs used whilst working in an apiary. (1 mark)				
K - 17	Content	Apicultural tools and equipment:  Hive tool, frame holder, smoker, lighter/matches, smoker fuel, wax foundations, frame wire, wire crimper, bee brush, uncapping knife, honey extractor, honey ripener, wax melter.	PPEs:  Bee suit, bee jacket, bee veil, beekeeper gloves, boots, powder free nitrile gloves.	's			
	General Criterion	Practice basic apicultural tasks. (8 marks)					
A - 11	Sub-criteria	Wear the appropriate apicultural PPEs successfully as part of your preparation to access the apiary. (2 marks)	Set-up a beehive correctly to be able to host a bee colony. (3 marks)	Light-up a bee smoker safely. (3 marks)			
	Content						

Topic 9: Poultry farming. (24 marks)

	General Criterion	Identify poultry feeders/drinkers and types. (2 marks)				
K - 18	Sub-criteria	Identify <b>TWO</b> pieces of equipment used in poul mark)	try farming. (1	List <b>TWO</b> types of poult	ry. (1 mark)	
	Content	<u>Equipment:</u> Poultry feeder, chick feeder, poultr boxes, incubator, brooder, cages, heat lamp.	y drinker, nest	Types of poultry: Layers ducks, geese, Guinea fo	r, Broilers, Fancy breeds, Turkeys, owl, Broiler quails.	
	General Criterion	Identify different poultry feeds. (2 marks)				
K - 19	Sub-criteria	Name <b>TWO</b> feeds used from chick to adult in lamark)	yer hen rearing. (1	Name <b>TWO</b> feeds used rearing. (1 mark)	from chick to slaughter in broiler	
	Content	<u>Layer feeds:</u> Chick crumbs, layer crumbs, layer mesh.	pellets, layer	Broiler feeds: Broiler starter, broiler grower, broiler finisher, corn (for corn fed).		
	General Criterion	Recall important aspects related to the operation of an incubator. (4 marks)				
	Sub-criteria	List <b>TWO</b> basic steps involved in the production of poultry species. (1 marks)	List <b>TWO</b> precautions for successful production of poultry species. (2 mark)		Match <b>FOUR</b> important values with essential steps in the operation of an incubator. (1 mark)	
K - 20	R - 20  appropriately; place in incubator (setting);  Start incubating period;  maintain eggs in incubator (check temperature and humidity regularly;  Stop turning the eggs for the last 3 days of the incubation cycle;  Do not open the incubator (lockdown until the hatch is completed to ensure the desire hatching humidity);  place chicks in brooder when hatched.		Collect clean and Set eggs for incubation to rotate without hincubation; Calibrideal temperature in zone with const Incubator should inecessary. Incubadry; Candling should should a should incubator should incub	nod hen to rooster ratio; non-deformed eggs; ation in a cool dark blaced in setter at the n; Setter to be allowed leating before ate incubator to ensure ; Incubator to be placed ant temperature; not be opened unless ator should never run ald be done to remove Rotator to be removed	Steps: Incubation days according to poultry species:  Example: 21 days (Chickens)  Temperature for incubation = 37.7°C  Candling day 1 = 7 <sup>th</sup> Candling day 2 = 14 <sup>th</sup> Removal of rotator according to poultry species:  Example = 18 <sup>th</sup> day for Chickens.	

	General Criterion	Outline <b>TWO</b> reasons why bio-security measures are conducted in the running of a farm. (4 marks)					
C - 5	Content	Bio-security measures:					
		Quarantine new life stock; Administer and record vaccinations regularly; Make use of disinfecting floor mats; Do not share tools and equipment with other farms; Be on the lookout and record signs of illness; Keep tools and equipment clean.					
	General Criterion	hens. (6 marks)					
A - 12	Sub-criteria	Collect eggs and store appropriately. (2 marks)	Clean and disinfect chicken coop including the drinker/feeder system. (2 marks)	Replenish feeders and drinkers appropriately. (2 marks)			
	Content	In a clean plastic container; Stored in a cool dry place.	Make use of manure clamp; Drinkers and feeders to be cleaned and disinfected at least every fortnight.				
	General Criterion	Conduct tasks relevant to producing chicks t	under supervision. (6 marks)				
A - 13	Sub-criteria	Set eggs for incubation following good practice. (2 marks)	Follow instructions to operate an egg incubator. (2 marks)	Follow instructions to host chicks in a brooder. (2 marks)			
	Content						













# Year 11 Assessment Criteria

**Topic 10:** Undertake tasks related to a honey beehive

inspection.

**Topic 11:** Cottage industry production.

<u>Topic 13:</u> Crop production.

**Topic 14:** Rabbit farming.

Topic 10: Undertake tasks related to a honey beehive inspection. (10 marks)

	General Criterion	Identify contents of a honey beehive. (2 marks)			
K – 27	Sub-criteria	Match <b>FOUR</b> different comb cells to their contents. (1 mark)	Identify <b>TWO</b> different honeybee casts. (1 mark)		
K-27	Content	Contents:	Different bees:		
		Eggs, larvae, worker, drones, queen, bee bread, nectar, honey, pollen.	Queen, worker, drone.		
	General Criterion	Participate in a honey beehive inspection. (8 marks)			
A - 14	Sub-criteria	Follow instructions to conduct a beehive inspection under supervision.			
	Content				

Topic 11: Cottage industry production. (20 marks) – CONTROLLED

	General Criterion	Identify cottage industry products and preserv	ation methods.	(2 marks)	
	Sub-criteria	List <b>TWO</b> cottage industry products. (1 mark)	Match <b>FOUR</b> methods of preservation to cottage industry products. (1 mark)		
K - 21	Content	Cottage industry products:  Jams, chutneys, dried produce, preserves in sugar, preserves in oil, preserves in vinegar,	Methods of pre	servation: fermentation, preserving in ving in oil, preserving in	
		preserves in brine/salt, honey, oil, cheese, wines, liquors, cosmetics.	brine, preservii smoking.	ng in sugar, candying,	
		NB: students are expected to list specific items eg. strawberry jam.			
	General Criterion	Recall the factors that contribute to costs and	labels for a cott	age industry product. (2 marks	3)
K - 22	Sub-criteria	List <b>TWO</b> items that make part of the cost to produce a cottage industry product. (1 mark)	Name <b>TWO</b> items that need to be included on a cottage industry product label. (1 mark)		
	Content	Expenses:	Items to be inc	luded on label:	
		Production costs, purchase of ingredients, containers, jars, bottles, packets, labelling, storage.	Brand, name of product, volume/weight, ingredients, expiry date, lot number.		
	General Criterion	Estimate costings related to cottage industry p	oroducts. (4 mar	ks)	
	Content	Estimate the costs involved in a given cottage product. (2 marks)	industry	Determine a price for a given marks)	cottage industry product. (2
C-6		Estimate of costs include: Costs involving production of ingredients Purchase of ingredients that cannot be produced in house (eg. Vinegar and sugar) Containers/Jars/packets/bottles Labels Number of hours (man hours) Water/electricity/cleaning materials Equipment costs			

	General Criterion	Produce a range of cottage industry products under supervision. (12 marks)					
A - 15	Sub-criteria	Prepare ingredients and containers for the preparation of a range cottage industry products under supervision. (2 marks)	Process and transfer to suitable packaging a range of cottage industry products under supervision. (8 marks)	Label a range of cottage industry products under supervision. (2 marks)			
	Content	NB:					
		<ul> <li>Students are required to produce a minimum of 3 different products that require different preservation/preparation methods.</li> <li>Students are also required to clean and disinfect the working station before labelling.</li> </ul>					

Topic 13: Crop production. (24 marks)

	General Criterion	Recall different crops and how to grow them	. (4 marks)				
K - 23	Sub-criteria	Match <b>FOUR</b> crop types with crops. (1 mark)	Match <b>FOUR</b> production methods with crops. (1 mark)	Match <b>FOUR</b> propagation techniques with crops. (2 marks)			
	Content	<u>Crop types:</u> Tubers, tree fruits, seasonal fruits, leafy, cereals, stem.	Production methods: Open field, greenhouse in soil, hydroponic, aeroponic, aquaponics	Propagation techniques: Seeding, cutting, bulb, runners, layering, rhizome cutting, grafting, tubers.			
	General Criterion	Make a crop plan for the production of a cot	tage industry product. (4 marks)				
C-7	Content	Establish a sowing and harvesting calendar required for the production of a range of cottage industry products. (1 mark)	Prepare a list of quantities of consumables required to produce a given number/weight of crops required for the production of a cottage industry product. (1 mark)	Estimate the costings involved in the production of a given number/weight of crops required for the production of a cottage industry product. (2 marks)			
	NB: Minimum number of different crops given = 4  List of quantities may include: Seeds, growth medium, seed trays, fertiliser, irrigation fittings, irrigation tubing, seedlings etc.		NB: Pricelist to be supplied by teacher.				
	General Criterion	Produce a range of crops that will be used for	duce a range of crops that will be used for the preparation of cottage industry products. (12 marks)				
A - 16	Sub-criteria	Sow/transplant a range of crops that will be used for the preparation of cottage industry products. (6 marks)	Maintain a range of crops until maturity that will be used for the preparation of cottage industry products. (4 marks)	Harvest crops that will be used for the preparation of cottage industry products. (2 marks)			
A - 10	Content	<ul> <li>Field preparation</li> <li>Setup of Irrigation system</li> <li>Crop Selection</li> <li>Seed tray preparation</li> <li>Maintaining Seed Tray</li> <li>Transplanting to field/greenhouse.</li> </ul>	<ul> <li>Irrigation of product</li> <li>Inter-row cultivation</li> <li>De-weeding</li> <li>Observing for pests and diseases</li> <li>Observing for deficiencies and disorders</li> </ul>	<ul> <li>Harvest OWN crop</li> <li>Cleaning</li> <li>Grading</li> <li>Storage</li> </ul>			
	General Criterion	Apply fertiliser following instructions unde	Apply fertiliser following instructions under supervision. (4 marks)				
A - 17	Sub-criteria  NB: All necessary PPEs and safety considerate be given a set of instructions to prepare and protection laws will be adhered to.		erations during this application are mandatory nd apply fertiliser as well as clean any applica	y. For assessment purposes, student must tion apparatus after use. Environmental			

**Topic 14: Rabbit farming. (26 marks)** 

	General Criterion	Identify rabbit feeders/drinkers and types.	(2 marks)		
K – 24	Sub-criteria	Identify <b>TWO</b> pieces of equipment used in mark)	rabbit farming. (1	List <b>TWO</b> common ra	bbit breeds. (1 mark)
	Content	Equipment: Feeder, nipple drinker, bottle dboxes.	lrinker, cages, nest	Example: New Zealar Dwarf, Lop, Lion head	nd White, Californian, Rex, Netherland d, Flemish giant.
	General Criterion	Identify different rabbit feeds. (2 marks)			
K – 25	Sub-criteria			Name <b>TWO</b> nutrients mark)	found in a commercial rabbit feed. (1
	Content	<u>Commercial feeds:</u> Weaner, grower, maintenance, doe, medicated.		Nutrients: Protein, fats, carbohydrates, minerals, vitamins.	
	General Criterion	Recite aspects of rabbit slaughtering. (3 marks)			
K 00	Sub-criteria	List <b>TWO</b> methods of rabbit slaughtering. (1 mark)	methods of rabbit slaughtering.  List <b>TWO</b> methods meat to the consum		List <b>TWO</b> animal welfare aspects to consider when slaughtering animals. (1 mark)
K - 26	Content	Different methods of rabbit slaughtering: stunning; dislocation; halal; striking.	Presentation methods of rabbit meat: whole carcass; parts; deboned; grounding; product creation (e.g. sausages, burgers, etc.).		Animal welfare aspects:  Remove unavoidable –  - Excitement, pain and suffering.
	General Criterion	Prepare a breeding programme calendar for a commercial rabbitry. (4 marks)			
C - 8	Content	Calendar parameters:			
		Intensity, date required for slaughter, date of breeding, date of preparation of nesting box, date of weaning, date feed.			oox, date of weaning, date of changing

	General Criterion	Practice tasks involved in the running of a rabbitry. (6 marks)				
A - 18	Sub-criteria	emove any debris stuck to the wire and ne accessories in cages. (2 marks)  Clean and disinfect the rabbitry including the drinker/feeder system. (2 marks)		Replenish feeders and drinkers (where applicable) appropriately. (2 marks)		
	Content		Make use of manure clamp; Drinkers and feeders to be cleaned and disinfected at least every fortnight.			
	General Criterion	Conduct tasks relevant to producing rabbits under supervision. (9 marks)				
A - 19	Sub-criteria	Examine a rabbit to determine its sex and health condition. (2 marks)	Select a suitable breeding pair of rabbits. (1 mark)	Follow instructions to carry out tasks required for a rabbit breeding programme. (6 marks)		
	Content					



### TEACHERS' PACK SUPPLEMENT

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### RUBRIC FOR ASSESSMENT CRITERIA

### Year 9

### Topic 1: Follow procedures for basic plant production.

K-1	Identify ONE tool and ONE piece of personal protective equipment that are used in an agribusiness enterprise.			
	□ 0.5 marks  Identified either 1 tool <b>or</b> 1 PPE		□ 1 mark	
			Identified 1 tool and 1 PPE	
K-1	Match FOUR pieces of personal protective equipment to their functions.			
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark
	Matched 1 PPE to the correct function.	Matched 2 PPEs to the correct function.	Matched 3 PPEs to the correct function.	Matched 4 PPEs to the correct function.
K-1	Recognise FOUR Health and Safety signs used in agricultural activity.			
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks
	Recognises 1 Health and Safety sign.	Recognises 2 Health and Safety signs.	Recognises 3 Health and Safety signs.	Recognises 4 Health and Safety signs.
K-2	Identify ONE irrigation fitting and ONE irrigation emitter.			
	□ 0.5 marks		□ 1 mark	
	Identified either 1 irrigation fitting <b>or</b> 1 irrigation emitter.		Identified 1 irrigation fitting and 1 irrigation emitter.	
K-2	Match FOUR irrigation fittings to their application.			
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark
	Matched 1 irrigation fitting to its function	Matched 2 irrigation fittings to their function	Matched 3 irrigation fittings to their function	Matched 4 irrigation fittings to their function

K-2	Discuss why different tubing diameters are normally used in an irrigation system.			
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks
	Makes very basic reference to either flow rate <b>or</b> pressure differences.	Makes very basic reference to both flow rate and pressure differences.	- increased main line diameter results in better flow rate. or - Irrigation lines with emitters are then reduced in diameter to increase pressure at point.	- increased main line diameter results in better flow rate Irrigation lines with emitters are then reduced in diameter to increase pressure at point.
C-1	Outline TWO preventive measures	required for maintaining a safe work e	nvironment in a horticultural enterprise.	
	□ 0.5 marks	□ 1mark	□ 1.5 marks	□ 2 marks
	Makes simple reference to 1 preventive measure	Makes simple reference to 2 preventive measures	Outlines well 1 preventive measure	Outlines well 2 preventive measures
C-2	Describe the use of TWO items tha	it should be present in a First Aid box.		
	□ 0.5 marks	□ 1mark	□ 1.5 marks	□ 2 marks
	Makes very basic description of 1 item.	Makes very basic description of 2 items.	Describes in detail 1 item.	Describes in detail 2 items.
C-1	Explain ways of dealing with ONE g	given injury.		
	□ 0.5 marks	□ 1mark	□ 1.5 marks	□ 2 marks
	Describes very basically how to deal with an injury but leaves some steps in the process missing.	Describes very basically how to deal with an injury in at least a 2-step process.	Describes in detail how to deal with an injury but leaves some steps in the process missing.	Describes in detail how to deal with an injury in at least a 2-step process.

A-1	Form a straight ridge with a furrow on each side in soil using appropriate tools and PPEs.				
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks	
	Forms a non-uniform ridge.	Forms a ridge that is not straight.	Forms a neat and straight ridge.	Forms a neat and straight ridge.	
	Forms furrows on each side of the ridge but are non-uniform.	Forms furrows on each side of the ridge but are non-uniform.	Forms furrows on each side of the ridge but are non-uniform.	Forms neat and straight furrows on each side of the ridge.	
	Uses the appropriate tools.	Uses the appropriate tools.	Uses the appropriate tools.	Uses the appropriate tools.	
	NB: if PPEs are not used no marks are to be awarded.	NB: if PPEs are not used no marks are to be awarded.	NB: if PPEs are not used no marks are to be awarded.	NB: if PPEs are not used no marks are to be awarded.	
A-1	1 Practice routine work that is required in a field or garden.				
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks	
	Student does not achieve mastery in any of the below skills but was able to conduct 2 activities involving the below skills with guidance.  Skills: De-weeding and/or tilling and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or re-potting followed by proper watering.	Student shows mastery of skill in 1 out of the below skills.  Skills: De-weeding and/or tilling and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or re-potting followed by proper watering.	Student shows mastery of skill in 2 out of the below skills.  Skills: De-weeding and/or tilling and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or re-potting followed by proper watering.	Student shows mastery of skill in a minimum of 3 out of the below skills.  Skills: De-weeding and/or tilling and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or re-potting followed by proper watering.	

A-1	Successfully grow a tray of seedlings.			
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks
	Student has independently conducted 1 of the below tasks in a skilful manner:	Student has independently conducted 2 of the below tasks in a skilful manner:	Student has independently conducted 3 of the below tasks in a skilful manner:	Student has independently conducted all the below tasks in a skilful manner:
	Filling tray with given medium and seeding appropriately.	Filling tray with given medium and seeding appropriately.	Filling tray with given medium and seeding appropriately.	Filling tray with given medium and seeding appropriately.
	Topping tray and irrigating appropriately.	Topping tray and irrigating appropriately.	Topping tray and irrigating appropriately.	Topping tray and irrigating appropriately.
	Production of mature seedlings with a success rate of not less than 50%.	Production of mature seedlings with a success rate of not less than 50%.	Production of mature seedlings with a success rate of not less than 50%.	Production of mature seedlings with a success rate of not less than 50%.
	Production of mature seedlings with a success rate of not less than 80%.	Production of mature seedlings with a success rate of not less than 80%.	Production of mature seedlings with a success rate of not less than 80%.	Production of mature seedlings with a success rate of not less than 80%.
	Marks for Topic (Max. 24)			

### **Topic 2: Propagate plants using different methods.**

K-3	Mention the TWO types of germination.				
	□ 0.5 marks		□1:	mark	
	Mentioned 1 type of germination.		Mentioned 2 types of germination.		
K-3	-3 Outline TWO conditions required for optimum propagation of plants.				
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark	
	Outlined 1 condition in very brief detail.	Outlined 2 conditions in very brief detail.	Outlined 1 condition in detail.	Outlined 2 conditions in detail.	
K-3	Describe TWO propagation techniques used for different plants.				
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks	
	Describes in limited detail 1 propagation technique.	Describes in limited detail 2 propagation techniques.	Describes in detail 1 propagation technique.	Describes in detail 2 propagation techniques.	
	=				
K-4	List TWO types of media used for pla	ant propagation and growth.			
	□ 0.	5 marks	□ 1 mark		
	Lists 1 type of media		Lists 2 types of media		
K-4	State suitable growth media for TWC	O different applications, applied to a spe	ecific example, in horticulture.		
	2.0 □	5 marks		mark	
	States 1 suitable growth medium.		States 2 suitable growth media.		

□ 0.5 marks either 1 advantage <b>or</b> 1 vantage for 1 growth m.	☐ 1 mark  Listed 1 advantage and 1 disadvantage for 1 growth medium.  OR  Listed either 1 advantage or 1 disadvantage for 2 growth media.	☐ 1.5 marks  Listed 1 advantage and 1 disadvantage for 1 growth medium. AND  Listed either 1 advantage or 1 disadvantage for 1 growth medium.	☐ 2 marks  Listed 1 advantage and 1 disadvantage for 2 growth media.			
antage for 1 growth	disadvantage for 1 growth medium.  OR  Listed either 1 advantage or 1	disadvantage for 1 growth medium.  AND  Listed either 1 advantage or 1				
	Listed either 1 advantage <b>or</b> 1 disadvantage for 2 growth media.					
VO tools and materials require	ed to graft a plant.					
□ 0.5 marks		□ 1 mark				
Lists 1 tool.		Lists 2 tools.				
on TWO considerations requir	ed to graft a plant.					
□ 0.	5 marks	□1ı	mark			
ons 1 consideration.		Mentions 2 considerations.				
ibe TWO benefits of grafted pl	ants.					
□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks			
ibes very basically 1 benefit.	Describes very basically 2 benefits.	Describes in detail 1 benefit.	Describes in detail 2 benefits.			
	•					
	tool.  n TWO considerations requir  0  ns 1 consideration.  De TWO benefits of grafted pl  0.5 marks	n TWO considerations required to graft a plant.  0.5 marks  ns 1 consideration.  De TWO benefits of grafted plants.  0.5 marks	tool.  In TWO considerations required to graft a plant.  O.5 marks  In Structure of the str			

A-2	Use the correct tools and procedure to take viable cuttings.				
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks	
A-2	Student conducts all tasks but required assistance for all tasks: Sanitization of tools, Proper utilisation of tools, Taking of correct cuttings from a healthy mother plant.  NB: if PPEs are not used no marks are to be awarded.  Use the correct procedure to plant a	Student conducts 1 task with zero assistance:  Sanitization of tools, Proper utilisation of tools, Taking of correct cuttings from a healthy mother plant.  NB: if PPEs are not used no marks are to be awarded.	Student conducts 2 tasks with zero assistance:  Sanitization of tools, Proper utilisation of tools, Taking of correct cuttings from a healthy mother plant.  NB: if PPEs are not used no marks are to be awarded.	Student conducts all 3 tasks with zero assistance:  Sanitization of tools, Proper utilisation of tools, Taking of correct cuttings from a healthy mother plant.  NB: if PPEs are not used no marks are to be awarded.	
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks	
	Student conducts all tasks successfully but required assistance for all tasks:  Select the appropriate container according to the type of cutting.  Select the appropriate media according to the type of cutting.  Correct orientation of cutting.  NB: if PPEs are not used no marks are to be awarded.	Student conducts 1 task with zero assistance:  Select the appropriate container according to the type of cutting.  Select the appropriate media according to the type of cutting.  Correct orientation of cutting.  NB: if PPEs are not used no marks are to be awarded.	Student conducts 2 tasks with zero assistance:  Select the appropriate container according to the type of cutting.  Select the appropriate media according to the type of cutting.  Correct orientation of cutting.  NB: if PPEs are not used no marks are to be awarded.	Student conducts all 3 tasks with zero assistance:  Select the appropriate container according to the type of cutting.  Select the appropriate media according to the type of cutting.  Correct orientation of cutting.  NB: if PPEs are not used no marks are to be awarded.	

A-2	Successfully grow a number of cuttings.			
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks
	Minimum attempt where student conducts all tasks successfully but required assistance for all	Student conducts all tasks successfully but required assistance for all tasks:	Student conducts all 1 task with zero assistance:  • Fill container with media and	Student conducts all 2 tasks with zero assistance:  • Fill container with media and
	Fill container with media and cutting as required for specific plant.	<ul> <li>Fill container with media and cutting as required for specific plant.</li> <li>Regular watering as required for</li> </ul>	cutting as required for specific plant.  • Regular watering as required for specific plant.	cutting as required for specific plant.  • Regular watering as required for specific plant.
	Regular watering as required for specific plant.	specific plant.  and	<ul><li>and</li><li>Production of new plant via cutting</li></ul>	<ul><li>and</li><li>Production of new plant via cutting</li></ul>
	However success rate less than 75% but	<ul> <li>Production of new plant via cutting with a success rate of not less than 75%.</li> </ul>	with a success rate of not less than 75%.	with a success rate of not less than 75%.
	not less than 50%.  NB: if PPEs are not used no marks are to be awarded.	NB: if PPEs are not used no marks are to be awarded.	NB: if PPEs are not used no marks are to be awarded.	NB: if PPEs are not used no marks are to be awarded.
	Marks for Topic (Max. 22)			

### Topic 3: Undertake proper fish keeping tasks to maintain a healthy fish tank.

K-6	Match FOUR fish species to their respective habitat.			
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark
	Matched 1 species to respective habitat.	Matched 2 species to respective habitat.	Matched 3 species to respective habitat.	Matched 4 species to respective habitat.
K-6	List TWO water parameters that sho	uld be monitored to keep a healthy fish	tank.	
	□ 0.5	5 marks	□1:	mark
	Lists 1 water parameter.		Lists 2 water parameters.	
K-6	Outline TWO fish habitats in relation to water parameters.			
	□ 1 mark		□ 2 marks	
	Outlined 1 fish habitat correctly.		Outlined 2 fish habitats correctly.	
C-2	Justify the size of a given aquarium f	or ONE given fish species.		
	□ 0.5 marks	□ 1mark	□ 1.5 marks	□ 2 marks
	Limited justification based upon 1 out of the below points:	Limited justification based upon 2 out of the below points:	Detailed justification based upon 1 out of the below points:	Detailed justification based upon 2 out of the below points:
	Size or fish and/or	Size or fish and/or	Size or fish and/or	Size or fish and/or
	Aggression of fish species and/or	Aggression of fish species and/or	Aggression of fish species and/or	Aggression of fish species and/or
	Fish morphology and/or	Fish morphology and/or	Fish morphology and/or	Fish morphology and/or
	Species swimming/schooling pattern.	Species swimming/schooling pattern.	Species swimming/schooling pattern./schooling pattern.	Species swimming/schooling pattern.

C-2	Explain TWO benefits of water change of a fish tank.				
	□ 0.5 marks	□ 1mark	□ 1.5 marks	□ 2 marks	
	Explains in limited detail 1 benefit.	Explains in limited detail 2 benefits.	Explains in detail 1 benefit.	Explains in detail 2 benefits.	
C-2	Discuss the importance of ONE aqu	arium décor item in relation to fish heal	th of a given species.		
	□ 0.5 marks	□ 1mark	□ 1.5 marks	□ 2 marks	
	Discusses in limited detail taking into consideration either the fish's wellbeing <b>or</b> natural habitat.	Discusses in limited detail taking into consideration the fish's wellbeing and natural habitat.	Discusses in detail taking into consideration either the fish's wellbeing <b>or</b> natural habitat.	Discusses in detail taking into consideration the fish's wellbeing and natural habitat.	
A-3	Give the right quantity of the right feed to fish in a running fish tank				
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks	
	Student conducts all tasks successfully but required assistance for all tasks:	Student conducts 1 task with zero assistance: Selection of correct feed for given	Student conducts 2 tasks with zero assistance: Selection of correct feed for given	Student conducts all 3 tasks with zero assistance: Selection of correct feed for given	
	Selection of correct feed for given fish tank.	fish tank.	fish tank.	fish tank.	
	Correct amount of fish feed.	Correct amount of fish feed.  Proper feeding technique.	Correct amount of fish feed.  Proper feeding technique.	Correct amount of fish feed.  Proper feeding technique.	
	Proper feeding technique.	Troperrecaing teeninque.	Troper recurring teerinique.	Troper recuing teerinique.	
A-3	Record water parameters for a giver	n fish tank.			
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks	
	Student measures <b>and</b> records successfully 5 water parameters listed below requiring assistance for both measuring parameters and recording results: Chlorine, Nitrates, Nitrites, pH, Water hardness, Temperature.	Student measures successfully 5 water parameters listed below with zero assistance: Chlorine, Nitrates, Nitrites, pH, Water hardness, Temperature.	Student measures <b>and</b> records successfully all 6 water parameters listed below requiring assistance for recording results: Chlorine, Nitrates, Nitrites, pH, Water hardness, Temperature.  NB: Deduct 0.5 marks if 5 parameters are measured.	Student measures <b>and</b> records successfully all 6 water parameters listed below with zero assistance: Chlorine, Nitrates, Nitrites, pH, Water hardness, Temperature.	

A-3	Conduct a water change for a running fish tank.				
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks	
	Students performs skilfully all 1 out of the 4 tasks below with zero assistance:	Students performs skilfully all 2 out of the 4 tasks below with zero assistance:	Students performs skilfully all 3 out of the 4 tasks below with zero assistance:	Students performs skilfully all 4 tasks below with zero assistance:	
	Remove a suitable amount of water using appropriate tools.	Remove a suitable amount of water using appropriate tools.	Remove a suitable amount of water using appropriate tools.	Remove a suitable amount of water using appropriate tools.  Measure and dose the correct water	
	Measure and dose the correct water additive.	Measure and dose the correct water additive.	Measure and dose the correct water additive.	additive.  Top-up water to appropriate level.	
	Top-up water to appropriate level.	Top-up water to appropriate level.	Top-up water to appropriate level.	After teacher has switched back on	
	After teacher has switched back on electrical items, check that all components and décor are in the appropriate condition.	After teacher has switched back on electrical items, check that all components and décor are in the appropriate condition.	After teacher has switched back on electrical items, check that all components and décor are in the appropriate condition.	electrical items, check that all components and décor are in the appropriate condition.	
	Marks for Topic (Max. 20)				

### Topic 4: Meet the basic needs of an avian and a mammalian pet.

K-7	List TWO common mammalian pets kept in Malta.			
	□ 0.5 marks		□ 1 mark	
	Lists 1 common mammalian pet.		Lists 2 common mammalian pets.	
K-7	Identify TWO types of accommodation for common mammalian pets in Malta.			
	□ 0.	5 marks	□1:	mark
	Identifies 1 type of accommodation.		Identifies 2 types of accommodation.	
K-7	Outline a diet for a mammalian pet through ONE life stage.			
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks
	Detailed discussion where the below 1 out of the 4 nutrients are included:  - Protein - Carbohydrates - Fibre - Vitamins and minerals  NB: Where applicable, eg. Cats and dogs, 1 nutrient may be replaced by pellet size.	Detailed discussion where the below 2 out of the 4 nutrients are included:  - Protein - Carbohydrates - Fibre - Vitamins and minerals  NB: Where applicable, eg. Cats and dogs, 1 nutrient may be replaced by pellet size.	Detailed discussion where the below 3 out of the 4 nutrients are included:  - Protein - Carbohydrates - Fibre - Vitamins and minerals  NB: Where applicable, eg. Cats and dogs, 1 nutrient may be replaced by pellet size.	Detailed discussion where the below nutrients are all included:  - Protein - Carbohydrates - Fibre - Vitamins and minerals  NB: Where applicable, eg. Cats and dogs, 1 nutrient may be replaced by pellet size.
K-8	List TWO common avian pets kept	in Malta.		
	□ 0.	5 marks	□ 1 mark	
	Lists 1 common avian pet.		Lists 2 common avian pets.	

K-8	Identify TWO types of accommodation for common avian pets in Malta.				
	□ 0.	5 marks	□1:	mark	
	Identifies 1 type of accommodation	n.	Identifies 2 types of accommodation.		
K-8	Select the appropriate feed for FOUR given avian pets.				
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks	
	Selects 1 appropriate feed.	Selects 2 appropriate feeds.	Selects 3 appropriate feeds.	Selects 4 appropriate feeds.	
C-3	Indicate the ideal environmental conditions required to keep a given mammalian pet and a given avian pet.				
	□ 0.5 marks	□ 1mark	□ 1.5 marks	□ 2 marks	
	Answer includes mentioning only 1 of the 2 following points:	Answer includes mentioning only the 2 following points:	Answer includes 1 of the 2 following points in detail:	Answer includes the 2 following points in detail:	
	<ul><li>Length of day</li><li>Temperature</li></ul>	- Length of day - Temperature	<ul><li>Length of day</li><li>Temperature</li></ul>	- Length of day - Temperature	
C-3	Describe factors that determine the number of a given pet that should be kept in a given cage/housing.				
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks	
	Answer includes mentioning only the of the 2 points below:	Answer includes mentioning only the 2 points below:	Detailed description where the 1 of the 2 points below is included:	Detailed description where the 2 points below are included:	
	<ul><li>Size of pet</li><li>Natural behaviour of pet.</li></ul>	<ul><li>Size of pet</li><li>Natural behaviour of pet.</li></ul>	<ul><li>Size of pet</li><li>Natural behaviour of pet.</li></ul>	<ul><li>Size of pet</li><li>Natural behaviour of pet.</li></ul>	
C-3	Discuss ONE criterion that should	be considered when designing a record-	keeping sheet for feeding and vaccinati	on of a given pet.	
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks	
	List reasons, without discussing why the criterion is important.	Discusses in brief the importance of the given criterion in record keeping card.	Discusses in detail giving facts rather than a justification why the given criterion is essential in record keeping card.	Discusses in detail giving proper justification why the given criterion is essential in record keeping card.	

A-4	Clean the cage/housing of a given i	папппацап рес.		
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks
	Student conducts all tasks successfully but required assistance for all tasks: Cleaning of walls and/or floor and/or wire appropriately. Cleaning of feeders appropriately. Cleaning and replenishment of drinkers appropriately.	Student conducts 1 task with zero assistance: Cleaning of walls and/or floor and/or wire appropriately. Cleaning of feeders appropriately. Cleaning and replenishment of drinkers appropriately.	Student conducts 2 tasks with zero assistance: Cleaning of walls and/or floor and/or wire appropriately. Cleaning of feeders appropriately. Cleaning and replenishment of drinkers appropriately.	Student conducts all 3 tasks with zero assistance: Cleaning of walls and/or floor and/or wire appropriately. Cleaning of feeders appropriately. Cleaning and replenishment of drinkers appropriately.
A-4	Give the right quantity of feed to a g	given mammalian pet according to the g	iven life stage.	
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks
	Student conducts all tasks successfully but required assistance for all tasks: Select suitable food for given pet. Weigh/measure suitable amount of feed. Loading feeder and placing appropriately.	Student conducts 1 task with zero assistance: Select suitable food for given pet. Weigh/measure suitable amount of feed. Loading feeder and placing appropriately.	Student conducts 2 tasks with zero assistance: Select suitable food for given pet. Weigh/measure suitable amount of feed. Loading feeder and placing appropriately.	Student conducts all 3 tasks with zero assistance: Select suitable food for given pet. Weigh/measure suitable amount of feed. Loading feeder and placing appropriately.
A-4	Use the correct procedure for hand	dling a given mammalian pet.		
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks
	Students was able to perform only 1 of the below tasks:  Safe and comfortable handling for pet where animal is neither harmed nor stressed unnecessarily.  Safe and comfortable in handling given pet.	Students performs well but required moderate assistance in both below tasks:  Safe and comfortable handling for pet where animal is neither harmed nor stressed unnecessarily.  Safe and comfortable in handling given pet.	Students performs well but required moderate assistance in 1 of the below tasks:  Safe and comfortable handling for pet where animal is neither harmed nor stressed unnecessarily.  Safe and comfortable in handling given pet.	Students performs skilfully: Safe and comfortable handling for pet where animal is neither harmed nor stressed unnecessarily. Safe and comfortable in handling given pet.

A-5	Clean the cage/housing of a given avian pet.					
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks		
	Student conducts all tasks successfully but required	Student conducts 1 task with zero assistance:	Student conducts 2 tasks with zero assistance:	Student conducts all 3 tasks with zero assistance:		
	assistance for all tasks: Cleaning of walls and/or floor	Cleaning of walls and/or floor and/or wire appropriately.	Cleaning of walls and/or floor and/or wire appropriately.	Cleaning of walls and/or floor and/or wire appropriately.		
	and/or wire appropriately.  Cleaning of feeders	Cleaning of feeders appropriately.	Cleaning of feeders appropriately.	Cleaning of feeders appropriately.		
	appropriately.	Cleaning and replenishment of drinkers appropriately.	Cleaning and replenishment of drinkers appropriately.	Cleaning and replenishment of drinkers appropriately.		
	Cleaning and replenishment of drinkers appropriately.					
A-5	Give the right quantity of feed to a	given avian pet according to the given lif	e stage.			
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks		
	Student conducts all tasks successfully but required	Student conducts 1 task with zero assistance:	Student conducts 2 tasks with zero assistance:	Student conducts all 3 tasks with zero assistance:		
	assistance for all tasks:	Select suitable food for given pet.	Select suitable food for given pet.	Select suitable food for given pet.		
	Select suitable food for given pet. Weigh/measure suitable amount	Weigh/measure suitable amount of feed.	Weigh/measure suitable amount of feed.	Weigh/measure suitable amount of feed.		
	of feed.  Loading feeder and placing appropriately.	Loading feeder and placing appropriately.	Loading feeder and placing appropriately.	Loading feeder and placing appropriately.		
A-5	Use the correct procedure for insta	alling a nesting box.				
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks		
	Students was able to perform only 1 of the below tasks: Selects the correct nest box	Students performs well but required moderate assistance in both below tasks:	Students performs well but required moderate assistance in 1 of the below tasks:	Students performs skilfully: Selects the correct nest box according to bird species		
	according to bird species	Selects the correct nest box according to bird species	Selects the correct nest box according to bird species	Positions the box correctly.		
	Positions the box correctly.  Secure installation of the box.	Positions the box correctly.	Positions the box correctly.	Secure installation of the box.		
		Secure installation of the box.	Secure installation of the box.			
	Marks for Topic (Max. 34)					

### Year 10

### Topic 5: Gardening and landscaping. (28 marks)

K-9	List TWO common sustainable garden types suitable for the Mediterranean climate.				
	□ 0.5 marks	□ 1 mark			
	Lists 1 common sustainable garden type.	Lists 2 common sustainable garden types.			
K-9	Name TWO plants suitable for a given garden type.				
	□ 0.5 marks	□ 1 mark			
	Names 1 plant suitable for given garden type.	Names 2 plants suitable for given garden type.			
K-10	List ONE type of fertiliser and ONE macronutrient.				
	□ 0.5 marks	□ 1 mark			
	Lists 1 type of fertiliser <b>OR</b> 1 macronutrient.	Lists 1 type of fertiliser and 1 macronutrient.			
K-10	Explain ONE benefit of organic matter in soil.				
	□ 0.5 marks	□ 1 mark			
	Outlines 1 benefit.	Explains 1 benefit.			

	□ 1 mark	□ 1.5 marks	□ 2.5 marks	□ 3 marks
	Student produced design but required assistance to select 3 or more categories of plants.	Student needed moderate prompting to produce a garden design containing:  - Trees, Shrubs, Perennials & Seasonals.	Student independently produces a simple design containing:  - Trees, Shrubs, Perennials & Seasonals.	Student independently produces a simple design containing:  - Trees, Shrubs, Perennials & Seasonals.  The selection of plants comprises plants that are compatible with each other.
C-4	Sketch an irrigation system ac	cording to given specifications.		
	□ 1 mark	□ 1.5 marks	□ 2.5 marks	□ 3 marks
	Student independently produced a sketch of the irrigation system which includes 2 out of the 5 following items:  - Main source of water - Irrigation tubing - Tubing diameter - Emitter locations - Other irrigation fittings such as tees, end caps etc.	Student independently produced a sketch of the irrigation system which includes 3 out of the 5 following items:  - Main source of water - Irrigation tubing - Tubing diameter - Emitter locations - Other irrigation fittings such as tees, end caps etc.	Student independently produced a sketch of the irrigation system which includes 4 out of the 5 following items:  - Main source of water - Irrigation tubing - Tubing diameter - Emitter locations - Other irrigation fittings such as tees, end caps etc.	Student independently produced a sketch of the irrigation system which includes the following items:  - Main source of water - Irrigation tubing - Tubing diameter - Emitter locations - Other irrigation fittings such as tees, end caps etc.

	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks
	Student transplanted plants with slight assistance:	Student transplanted plants with slight assistance:	Student transplanted plants without assistance:	Student transplanted plants without assistance:
	<ul> <li>in location as per given job sheet.</li> <li>Using appropriate tools and technique.</li> </ul>	<ul> <li>in location as per given job sheet.</li> <li>Using appropriate tools and technique.</li> <li>Cleaned and tidied work area following given task.</li> </ul>	<ul> <li>in location as per given job sheet.</li> <li>Using appropriate tools and technique.</li> </ul>	<ul> <li>in location as per given job sheet.</li> <li>Using appropriate tools and technique.</li> <li>Cleaned and tidied work area following given task.</li> </ul>
A-6	Practice techniques for raising	g soil beds and creating ridges ('konka')	around the plants transplanted in your g	arden area.
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks
	Student forms one round ridge around a given plant that has either a consistent trough or ridge. Work is done with minimal assistance.	Student forms neat round ridge all around a number of given plants that have a consistent trough and ridge. Work is done with minimal assistance.	Student forms neat round ridge all around a number of given plants that have a consistent trough and ridge. Work is done without any assistance.	Student forms neat round ridge all around a number of given plants that have a consistent trough and ridge. Work is done without any assistance. Same size replicated at least twice.
A-6	Lay an irrigation system for you	ur garden area as per given plan.		
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks
	Student performs all tasks with minimal assistance.  - Irrigation lines are laid skilfully - All fittings attached according to specifications of product Emitters attached according to specifications of product.	Student performs 1 out of the following tasks with zero assistance and 2 tasks with minimal assistance.  - Irrigation lines are laid skilfully - All fittings attached according to specifications of product Emitters attached according to specifications of product.	Student performs 2 out of the following tasks with zero assistance and 1 task with minimal assistance.  - Irrigation lines are laid skilfully - All fittings attached according to specifications of product Emitters attached according to specifications of product.	Irrigation lines are laid skilfully     All fittings attached according to specifications of product.     Emitters attached according to specifications of product.  No assistance was given to student.

A-7	Prepare pruning tools for	use and storage.				
		□ 0.5 mark		□ 1 mark		
	Selects all the appropriate tools for the given pruning task. And Prepares tools for appropriate storage after pruning task. Both tasks done with minor assistance.			Selects all the appropriate tool And Prepares tools for appropriate Both tasks done without assist	storage after pruning task.	
A-7	Maintain a given garden a	rea over a period of time under	supervision.			
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks	□ 6 marks	
	Conducts all these tasks with zero assistance for at least 2 weeks:  - Removes weeds - Irrigation - Checks for problems - Makes cultural procedures as per given plants.	Conducts all these tasks with zero assistance for at least 3 weeks:  - Removes weeds - Irrigation - Checks for problems - Makes cultural procedures as per given plants.	Conducts all these tasks with zero assistance for at least 4 weeks:  - Removes weeds - Irrigation - Checks for problems - Makes cultural procedures as per given plants.	Conducts all these tasks with zero assistance for at least 5 weeks:  - Removes weeds - Irrigation - Checks for problems - Makes cultural procedures as per given plants.	Conducts all these tasks with zero assistance for at least 6 weeks:  - Removes weeds - Irrigation - Checks for problems - Makes cultural procedures as per given plants.	

A-7	Conduct a given pruning	task under supervision.			
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks	□ 3 marks
	Student required significant prompting together with practical assistance whilst performing pruning task. However, the following skills were observed:  - Appropriate use of pruning tools Follows all instructions given for specific pruning task.	Student required significant prompting whilst performing pruning task but no physical assistance. The following skills were observed:  - Appropriate use of pruning tools Follows all instructions given for specific pruning task.	Student required moderate prompting whilst performing pruning task during which 3 of the following skills were observed:  - Appropriate use of pruning tools Diligent use of pruning tools Diligent use of workspace Follows all instructions given for specific pruning task.	Student required moderate prompting whilst performing pruning task during which these skills were observed:  - Appropriate use of pruning tools Diligent use of pruning tools Diligent use of workspace Follows all instructions given for specific pruning task.	Student performs almost autonomously requiring just supervision to perform pruning task during which these skills were observed:  - Appropriate use of pruning tools Diligent use of pruning tools Diligent use of workspace Follows all instructions given for specific pruning task.
	Marks for Top	pic (Max. 28)			

## Topic 6: Setting-up an aquarium. (12 marks)

K-11	List TWO different pieces of life support/habitat equipment used in an aquarium.				
	□ 0.5 marks	□ 1 mark			
	Lists 1 piece of equipment.	Lists min. 2 pieces of equipment.			
K-11	List TWO different décor items used in an aquarium.				
	□ 0.5 marks	□ 1 mark			
	Lists 1 decor item.	Lists min. 2 decor items.			
K-12	2 Name TWO aquascaping styles.				
	□ 0.5 marks	□ 1 mark			
	Names 1 aquascaping style.	Names min. 2 aquascaping styles'			
K-12	List ONE aquarium maintenance tools/supplies and ONE aquascaping	tools/supplies.			
	□ 0.5 marks	□ 1 mark			
	Lists min. 1 maintenance tool/supplies <b>OR</b>	Lists min. 1 maintenance tool/supplies AND			
	Lists min. 1 aquascaping tool.	Lists min. 1 aquascaping tool.			

A-8	Set-up an aquarium with the nece	essary equipment and décor.				
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks		
	Student completes full set-up with significant assistance <b>AND</b> significant prompting.	Student completes full set-up with significant assistance <b>OR</b> significant prompting.	Student completes full set-up with minimal assistance <b>OR</b> minimal prompting.	Student completes full set-up without any assistance or prompting.		
A-8	Prepare an aquarium to make it suitable to host the given biota.					
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks		
	Student performs tasks with a high level of assistance.	Student performs tasks with moderate assistance.	Student performs tasks skilfully <b>BUT</b> requiring moderate assistance for 1 task only.	Student performs tasks skilfully without any assistance.		
A-8	Maintain an aquarium for a period	d of time.				
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks		
	Student performs a min. of 6 out of the 8 indicated tasks skilfully over a minimum period of 30 days. Slight assistance/prompting was required. At least 2 entries of record of work to be included.	Student performs a min. of 6 out of the 8 indicated tasks skilfully over a minimum period of 30 days. At least 2 entries of record of work to be included.	Student performs a min. of 6 out of the 8 indicated tasks skilfully over a minimum period of 30 days. Slight assistance/prompting was required. At least 3 entries of record of work to be included.	Student performs a min. of 6 out of the 8 indicated tasks skilfully over a minimum period of 30 days. At least 3 entries of record of work to be included.		
Marks	for Topic (Max. 12)					

### Topic 7: Petcare. (22 marks)

K-13	Name TWO basic tools used in animal grooming.			
	□ 0.5 marks	□ 1 mark		
	Named 1 tool.	Named 2 tools.		
K-13	List TWO animal coat types. (1 mark)			
	□ 0.5 marks	□ 1 mark		
	Listed 1 animal coat type.	Listed 2 animal coat types.		
K-14	Name TWO PPEs utilised in animal grooming and veterinary nursing.			
	□ 0.5 marks	□ 1 mark		
	Names 1 PPE.	Names 2 PPEs.		
K-14	Name TWO tools utilised in veterinary nursing.			
	□ 0.5 marks	□ 1 mark		
	Names 1 tool/equipment.	Names 2 tools/equipment.		
K-15	List ONE common pet health condition, ONE common pet parasite and	ONE common pet disease and how to treat them.		
	□ 0.5 marks	□ 1 mark		
	Student lists: 1 common pet health condition <b>OR</b> 1 common pet parasite <b>OR</b> 1 common pet disease.	Student lists: 1 common pet health condition <b>OR</b> 1 common pet parasite <b>OR</b> 1 common pet disease <b>AND</b> how to treat it.		

K-15	Explain the importance of vaccinating an animal.					
	□ 0.75 marks	□ 1.5 mark	□ 2.25 marks	□ 3 marks		
	Student explains minimally either prevention of disease or controlling disease transmission.	Student explains minimally both prevention of disease and controlling disease transmission.  or  Student explains in detail either prevention of disease or controlling disease transmission.	Student explains minimally prevention of disease and in detail controlling disease transmission.  or  Student explains in detail prevention of disease and minimally controlling disease transmission.	Student explains in detail both prevention of disease and controlling disease transmission.		
A-9	Conduct a health check for a give	en animal using basic veterinary nursing	gequipment.			
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks		
	Through significant assistance, checks 6 areas.	Through significant assistance, checks 9 areas.	Skilfully, with minimal assistance, checks 9 areas.	Skilfully and autonomously checks 9 areas.		
A-9	Record the results of an animal h	ealth checklist to assess overall health	status of a given animal.			
	□ 0.5 marks	□ 1 mark	□ 2 marks			
	60% of records entered correctly.	All records entered correctly with minimal assistance.	All records entered correctly without assistance.			

A-10	Select the appropriate grooming t	ools for a given grooming task.		
	□ 0.5 marks	□ 1 mark	□ 2 marks	
	Half of the grooming tools required for given grooming task were selected without assistance.	Most grooming tools required for given grooming task were selected without assistance.	All grooming tools required for given grooming task were selected without assistance.	
A-10	Conduct grooming of a given anin	nal under supervision.		
	□ 2 marks	□ 3 marks	□ 4 marks	□ 5 marks
	Performs given grooming task on a given animal with assistance from fellow student limited only to restraint of the animal and handing of tools/equipment. Minimal prompting from educators was required.  Grooming procedure to include on least 2 areas of the animal.	Performs given grooming task on a given animal with assistance from fellow student limited only to restraint of the animal and handing of tools/equipment.  Grooming procedure to include on least 2 areas of the animal.	Performs given grooming task on a given animal with assistance from fellow student limited only to restraint of the animal and handing of tools/equipment. Minimal prompting from educators was required.  Grooming procedure to include on least 3 areas of the animal.	Performs given grooming task on a given animal with assistance from fellow student limited only to restraint of the animal and handing of tools/equipment.  Grooming procedure to include on least 3 areas of the animal.
A-10	Maintain grooming tools appropri	ately.		
	□ 1 mark	□ 2 marks	□ 3 marks	
	Student, with minimal assistance and prompting maintains given grooming tools appropriately before and after use.	Student, with minimal assistance, maintains given grooming tools appropriately before and after use.	Student, without any assistance, maintains given grooming tools appropriately before and after use.	
	Marks for Topic (Max. 22)			

### Topic 8: Introductory Apiculture. (14 marks)

K-16	List <b>TWO</b> apicultural products.				
	□ 0.5	marks	□1:	mark	
	Lists 1 apicul	tural product.	Lists 2 apicult	ural products.	
K-16	Name <b>FOUR</b> roles of a worker bee.				
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks	
	Named 1 role.	Named 2 roles.	Named 3 roles.	Named 4 roles.	
K-16	Identify <b>TWO</b> parts of a beehive.				
	□ 0.5	marks	□ 1r	mark	
	Identifie	ed 1 part.	Identified 2 parts.		
K-17	Match <b>FOUR</b> apicultural tools or equip	oment to their use.			
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1mark	
	Matches 1 apicultural tool or equipment to its use.	Matches 2 apicultural tools or equipment to their use.	Matches 3 apicultural tools or equipment to their use.	Matches 4 apicultural tools or equipment to their use.	
K-17	Name <b>TWO</b> PPEs used whilst working	in an apiary. (1 mark)			
	□ 0.5 marks		□1:	mark	
	Names 1 PPE.		Names	2 PPEs.	

A-11	Wear the appropriate apicultural PPEs successfully as part of your preparation to access the apiary.			
	□ 0.5 marks	□ 1 mark	□ 2 marks	
	Wears all PPEs with minimal assistance.	Wears most PPEs with minimal assistance. Other PPEs with no assistance.	Wears all PPEs with no assistance.	
A-11	Set-up a beehive correctly to be able to	o host a bee colony.		
	□ 1 mark	□ 2 marks	□ 3 marks	
	Complete set-up of beehive with slight assistance for all of the hive.	Complete set-up of beehive with slight assistance for some parts of the hive.	Complete set-up of beehive with no assistance.	
A-11	Light-up a bee smoker safely.			
	□ 1 mark	□ 2 marks	□ 3 marks	
	Smoker was lit successfully with minimal assistance. Student was prompted to remove veil/other flammable items (long hair, sleeves etc.) from the way. Produced a stream of 'warm' smoke.	Smoker was lit successfully with zero assistance. Student was prompted to remove veil/other flammable items (long hair, sleeves etc.) from the way. Produced a stream of 'warm' smoke.	Smoker was lit successfully with zero assistance. Student removed veil/other flammable items (long hair, sleeves etc.) from the way. Produced a stream of 'warm' smoke.	
Marks	for Topic (Max. 14)			

### Topic 9: Poultry Farming. (24 marks)

K-18	Identify TWO pieces of equipment used in poultry farming.			
	□ 0.5 marks	□ 1 mark		
	Identifies 1 piece of equipment.	Identifies 2 pieces of equipment.		
K-18	List TWO types of poultry.			
	□ 0.5 marks	□ 1 mark		
	Lists 1 poultry type.	Lists 2 poultry types.		
K-19	Name TWO feeds used from chick to adult in layer hen rearing.			
	□ 0.5 marks	□ 1 mark		
	Names 1 feed.	Names 2 feeds.		
K-19	Name TWO feeds used from chick to slaughter in broiler rearing.			
	□ 0.5 marks	□ 1 mark		
	Names 1 feed from the.	Names 2 feeds.		
K-20	List TWO basic steps involved in the Production of poultry species.			
	□ 0.5 marks	□ 1 mark		
	Lists 1 step.	Lists 2 steps.		
K-20	List TWO precautions for successful production of poultry species.			
	□ 1mark	□ 2 marks		
	Lists 1 precaution.	Lists 2 precautions.		

K-20	Match <b>FOUR</b> important values with e	essential steps in the operation of an incu	ıbator.		
	□ 0.25 marks	□ 0.5 marks	□ 1.5 marks	□ 1 mark	
	Matches 1 value to an essential step for given poultry species.	Matches 2 values to essential steps for given poultry species.	Matches 3 values to essential steps for given poultry species.	Matches 4 values to essential steps for given poultry species.	
C-5	Outline TWO reasons why bio-securi	ty measures are conducted in the runnin	g of a farm.		
	□2	marks	□ 4 n	narks	
	Outlines 1 bio-	security measure.	Outlines 2 bio-se	ecurity measures.	
A-12	Collect eggs and store appropriately.				
		□ 0.5 marks	□ 1.5 marks	□ 2 marks	
		Student follows given standard procedure with moderate assistance and prompting.	Student follows given standard procedure with moderate assistance.	Student follows given standard procedure without any assistance.	
A-12	Clean and disinfect chicken coop inc	cluding the drinker/feeder system.			
		□ 0.5 marks	□ 1.5 marks	□ 2 marks	
		Student follows given standard procedure with moderate assistance and prompting.	Student follows given standard procedure with moderate assistance.	Student follows given standard procedure without any assistance.	
A-12	Replenish feeders and drinkers appr	opriately.			
	_ 1	mark	□ 2 n	narks	
	Student follows given standard proce	edure with moderate assistance.	Student follows given standard procedu	ure without any assistance.	

A-13	Set eggs for incubation following good practice.			
	□ 1mark	□ 2 marks		
	Student follows given standard procedure with moderate assistance.	Student follows given standard procedure without any assistance.		
A-13	Follow instructions to operate an egg incubator.			
	□ 1 mark	□ 2 marks		
	Student follows given standard procedure with moderate assistance.	Student follows given standard procedure without any assistance.		
A-13	Follow instructions to host chicks in a brooder.			
	□ 1 mark	□ 2 marks		
	Student follows given standard procedure with moderate assistance.	Student follows given standard procedure without any assistance.		
	Marks for Topic (Max. 24)			

### Year 11

# Topic 10: Undertake tasks related to a honey beehive inspection. (10 marks)

K-27	Match FOUR different comb cells to their contents.				
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark	
	Matches 1 different comb cell to its contents.	Matches 2 different comb cells to their contents.	Matches 3 different comb cells to their contents.	Matches 4 different comb cells to their contents.	
K-27	Identify <b>TWO</b> different honeybee c	asts.			
	□ 0.	5 marks	□1	mark	
	Identifies 1 cast.		Identifies 2 casts.		
A-14	Follow instructions to conduct a be	eehive inspection under supervision.			
	□ 2 marks	□ 4 marks	□ 6 marks	□ 8 marks	
	The student after prompting:	The student after prompting:	The student after prompting:	The student autonomously:	
	<ul> <li>Wears PPEs correctly; or</li> <li>Stands behind hive rather than in front.</li> <li>Behaves appropriately in the apiary; (compulsory)</li> </ul>	<ul> <li>Wears PPEs correctly; or</li> <li>Stands behind hive rather than in front.</li> <li>Behaves appropriately in the apiary; (compulsory)</li> </ul>	<ul> <li>Wears PPEs correctly;</li> <li>Behaves appropriately in the apiary;</li> <li>Stands behind hive rather than in front.</li> </ul>	<ul> <li>Wears PPEs correctly;</li> <li>Behaves appropriately in the apiary;</li> <li>Stands behind hive rather than in front.</li> </ul>	
	Student will, upon prompting, carry out 2 out the 3 tasks:	Student will, upon prompting, carry out:	Student will, upon prompting, carry out:	Student will, upon prompting, carry out:	
	<ul> <li>Hold frames</li> <li>appropriately;</li> <li>Utilise a hive tool;</li> <li>Open or close a hive.</li> </ul>	<ul> <li>Hold frames appropriately;</li> <li>Utilise a hive tool;</li> <li>Open or close a hive.</li> </ul>	<ul> <li>Hold frames appropriately;</li> <li>Utilise a hive tool;</li> <li>Open or close a hive.</li> </ul>	<ul> <li>Hold frames appropriately;</li> <li>Utilise a hive tool;</li> <li>Open or close a hive.</li> </ul>	
	Marks for Topic (Max. 10)				

### **Topic 11: Cottage Industry Production. (20 marks)**

K-21	List TWO cottage industry products.				
	□ 0.5 marks		□1ı	□ 1 mark	
	Lists 1 specific item.		Lists 2 specific items.		
K-21	Match FOUR methods of preservat	ion to cottage industry products.			
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark	
	Matches 1 product to its respective method of preservation.	Matches 2 products to their respective method of preservation.	Matches 3 products to their respective method of preservation.	Matches 4 products to their respective method of preservation.	
K-22	List TWO items that make part of the cost to produce a cottage industry product.				
	□ 0.	5 marks	□ 1 mark		
	Lists 1 expenses.		Lists 2 expenses.		
K-22	Name TWO items that need to be in	ncluded on a cottage industry product la	abel.		
	□ 0.	5 marks	□ 1 mark		
	Names 1 item.		Names 2 items.		
C-6	Estimate the costs involved in a given cottage industry product.				
		□ 1 mark	□ 1.5 marks	□ 2 marks	
		Presents all costs involved through minimal prompting.	Through minimal prompting, presents all costs involved and correctly sums up costs without assistance.	Independently, presents all costs involved and correctly sums up costs.	

C-6	Determine a price for a given cottage industry product.				
		□ 1mark	□ 1.5 marks	□ 2 marks	
		Through minimal assistance, determines profit margin or percentage profit that is fair to both the producer and consumer. <b>OR</b> Produces a just selling price.	Without any assistance, determines profit margin or percentage profit that is fair to both the producer and consumer. <b>OR</b> Produces a just selling price.	Determines profit margin or percentage profit that is fair to both the producer and consumer.  Produces a just selling price.	
A-15	Prepare ingredients and containers	s for the preparation of a range cottage i	ndustry products under supervision.		
		□ 1mark	□ 1.5 marks	□ 2 marks	
		Prepares most ingredients and most containers from 3 given recipes.	Prepares all ingredients and most containers from 3 given recipes. <b>OR</b>	Prepares all ingredients and containers from 3 given recipes.	
			Prepares most ingredients and all containers from 3 given recipes.		
A-15	Process and transfer to suitable pa	ckaging a range of cottage industry prod	ducts under supervision.		
		□ 3 marks	□ 6 marks	□ 8 marks	
		Through significant assistance, follows procedure from processing up to bottling/canning/packaging of 3 cottage industry products as per their respective recipes.	Through minimal assistance, follows procedure from processing up to bottling/canning/packaging of 3 cottage industry products as per their respective recipes.	Follows procedure from processing up to bottling/canning/packaging of 3 cottage industry products as per their respective recipes.	
A-15	5 Label a range of cottage industry products under supervision.				
		□ 1mark	□ 1.5 marks	□ 2 marks	
		For each cottage industry product, transfers label neatly and correctly. Minimal assistance given.	For each cottage industry product, designs label, transfers label neatly and correctly. Minimal assistance given.	For each cottage industry product, designs label, transfers label neatly and correctly. No assistance given.	
	Marks for Topic (Max. 20)				

### **Topic 12: Crop Production. (24 marks)**

K-23	Match FOUR crop types with crops.			
	□ <b>0.2</b> 5 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark
	Matches 1 crop to the correct crop type.	Matches 2 crops to the correct crop type.	Matches 3 crops to the correct crop type.	Matches 4 crops to the correct crop type.
K-23	Match FOUR production methods v	with crops.		
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark
	Matches 1 production method with respective crop.	Matches 2 production methods with respective crops.	Matches 3 production methods with respective crops.	Matches 4 production methods with respective crops.
K-23	Match <b>FOUR</b> propagation techniqu	es with crops.		
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks
	Matches 1 propagation technique with respective crop.	Matches 2 propagation techniques with respective crops.	Matches 3 propagation techniques with respective crops.	Matches 4 propagation techniques with respective crops.
C-7	Establish a sowing and harvesting o	calendar required for the production of a	range of cottage industry products.	
	□0.	5 marks	□ 1 mark	
	Produces a harvesting calendar for	3 crops.	Produces a harvesting calendar for 4 c	rops.
C-7	Prepare a list of quantities of consumables required to produce a given number/weight of crops required for the production of a cottage industry product.			oduction of a cottage industry
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark
	List includes: 2 out 3 from propagative media, propagation accessories/materials, irrigation items.	List includes: 2 out 3 from propagative media, propagation accessories/materials, irrigation items.  Lists include 1 of 2 with quantities.	List includes: propagative media, propagation accessories/materials, irrigation items. Lists include 2 of 3 with quantities.	List includes: propagative media, propagation accessories/materials, irrigation items. Lists include ALL quantities.

C-7	Estimate the costings involved in the production of a given number/weight of crops required for the production of a cottage industry product.				
		1 mark	□ 2 n	□ 2 marks	
	Through given price list, student wi individual crop/kg. <b>OR</b>	ll be able to produce the price per	Through given price list, student will be individual crop/kg and the gross cost p	e able to produce the price per per total projected harvest.	
	The gross cost per total projected h	narvest.			
A-16	Sow/transplant a range of crops the	at will be used for the preparation of cot	tage industry products.		
		□ 2 marks	□ 4 marks	□ 6 marks	
		Conducts, with greater assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.	Conducts, with minimal assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.	Conducts, without assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.	
A-16	Maintain a range of crops until mat	urity that will be used for the preparation	n of cottage industry products.		
		□ 1 mark	□ 2.5 marks	□ 4 marks	
		Conducts, with greater assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.	Conducts, with minimal assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.	Conducts, without assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.	
A-16	Harvest crops that will be used for	the preparation of cottage industry prod	ucts.		
		□ 0.5 marks	□ 1 mark	□ 2 marks	
		Conducts, with greater assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.	Conducts, with minimal assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.	Conducts, without assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.	

A-17	Apply fertiliser following instructions under supervision.				
		□ 1 mark	□ 2.5 marks	□ 4 marks	
		Follows given set of instructions to apply fertiliser suitably and safely with greater assistance.	Follows given set of instructions to apply fertiliser suitably and safely with minimal assistance.	Follows given set of instructions to apply fertiliser suitably and safely with no assistance.	
	Marks for Topic (Max. 24)				

### Topic 13: Rabbit farming. (26 marks)

K-24	Identify TWO pieces of equipment used in rabbit farming.				
	□ 0.5 marks	□ 1 mark			
	Identifies 1 piece of equipment.	Identifies 2 pieces of equipment.			
K-24	List TWO common rabbit breeds.				
	□ 0.5 marks	□ 1 mark			
	Lists 1 common rabbit breed.	Lists 2 common rabbit breeds.			
K-25	Name TWO feeds used in commercial rabbit rearing.				
	□ 0.5 marks	□ 1 mark			
	Names 1 feed.	Names 2 feeds.			
K-25	Name TWO nutrients found in a commercial rabbit feed.				
	□ 0.5 marks	□ 1 mark			
	Names 1 nutrient.	Names 2 nutrients.			
K-26	List TWO methods of rabbit slaughtering.				
	□ 0.5 marks	□ 1 mark			
	Lists 1 method.	Lists 2 methods.			

K-26	List TWO methods of presenting rabbit meat to the consumer.					
	□ 0.5 marks		□ 1 mark			
	Lists 1 method.		Lists 2 methods.			
K-26	List TWO animal welfare aspects t	o consider when slaughtering animals.				
	□0	.5 marks	□ 1 mark			
	Lists 1 aspect.		Lists aspects.			
C-8	Prepare a breeding programme ca	lendar for a commercial rabbitry.				
		□ 2 marks	□ 3 marks	□ 4 marks		
		Prepares a breeding programme calendar involving most aspects from breeding to slaughter without minimal assistance.	Prepares a breeding programme calendar involving all aspects from breeding to slaughter with minimal assistance.	Prepares a breeding programme calendar involving all aspects from breeding to slaughter without any assistance.		
A-18	Remove any debris stuck to the wire and the accessories in cages.					
	□ 1 mark		□ 2 marks			
	Task carried out skilfully but with r	carried out skilfully but with moderate assistance/prompting.		Task carried out skilfully without assistance.		
A-18	Clean and disinfect the rabbitry including the drinker/feeder system.					
		1 mark	□ 2 marks			
	Task carried out skilfully but with r	noderate assistance/prompting.	Task carried out skilfully without assistance.			

A-18	Replenish feeders and drinkers (where applicable) appropriately.			
	□ 1 mark		□ 2 marks	
	Task carried out skilfully but with n	noderate assistance/prompting.	Task carried out skilfully without assis	tance.
A-19	Examine a rabbit to determine its s	ex and health condition.		
		1 mark	□ 2 n	narks
	Without any assistance, examined to identify <b>either</b> sex <b>or</b> health condition of the rabbit.		Without any assistance, examined to identify both sex and health condition of the rabbit.	
A-19	A-19 Select a suitable breeding pair of rabbits.			
	□ 0.5 marks		□1ı	mark
	Without any assistance, selected a selection of rabbits.	a suitable breeding rabbit from a given	itable breeding pair from a given	
A-19	Follow instructions to carry out tas	ks required for a rabbit breeding progra	mme.	
	□ 2 marks	□ 3 marks	□ 4 marks	□ 6 marks
	Adheres to given breeding protocol from selection of breeding pair till weaning over a period of less than 9 weeks. All tasks performed by student without need for assistance. Minor prompting required.	Adheres to given breeding protocol from selection of breeding pair till weaning over a period of less than 9 weeks. All tasks performed by student without need for assistance.	Adheres to given breeding protocol from selection of breeding pair till weaning over a period of minimum 9 weeks. All tasks performed by student without need for assistance. Minor prompting required.	Adheres to given breeding protocol from selection of breeding pair till weaning over a period of minimum 9 weeks. All tasks performed by student without need for assistance.
	Marks for Topic (Max. 26)			

# ASSIGNMENT BRIEF FRONTSHEET



Student's Signature

Upon receiving marks and feedback on corrected work

## APPLIED VOCATIONAL CERTIFICATE ASSESSMENT FRONT SHEET

Subject			Colloit				
Unit Number			Assessment Number				
Assessment Title			1		1		
Date Set			Date Due				
Class/Group			Student ID				
Student Name			Student Surname				
School			1		•		
Criteria							TOTAL
Maximum							
Mark							
Mark Achieved							
		Name a	and Surname	•	Signatur	е	Date
Internal Verifier							
Assignment Brief A							
<b>Teacher / Assesso</b> Confirmation of Ma							
Internal Verifier	11 K						
	ion Approval (if						
Assessment Decis sampled)	ion Approvat ( <i>it</i>						

### ASSIGNMENT BRIEF EXEMPLAR

## Year 9: Topics 1 & 2



#### **Task 1 Crop Farming and Gardening Basics**

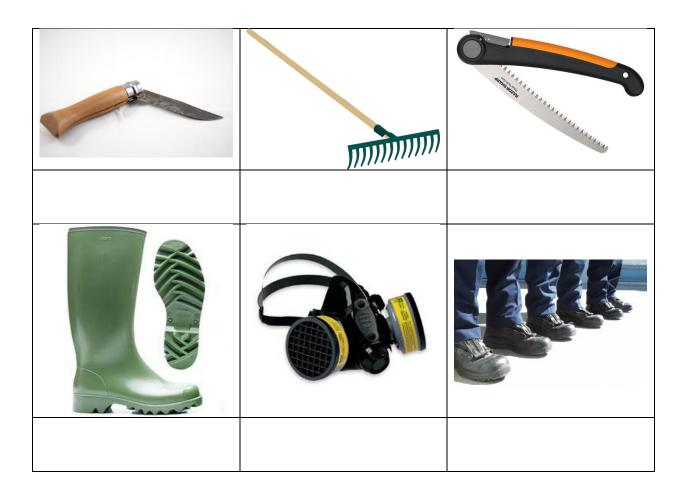
#### 100% practical task prepared by Teacher

#### (10 marks)

- A) Form a straight ridge with a furrow on each side in soil using appropriate tools and PPEs.
- B) Practice as many activities of routine work that are required in a field or garden. Routine work includes: de-weeding, tilling, raking, removal of clippings, transplanting seedlings followed by proper watering, re-potting followed by proper watering. NB: In the process, you should produce a range of crops from seed to harvest and also grow ornamentals from seedling to maturity.
- C) Do your best to successfully grow a tray of seedlings ready for transplant.

#### Task 2 Crop Farming and Gardening Basics (14 marks)

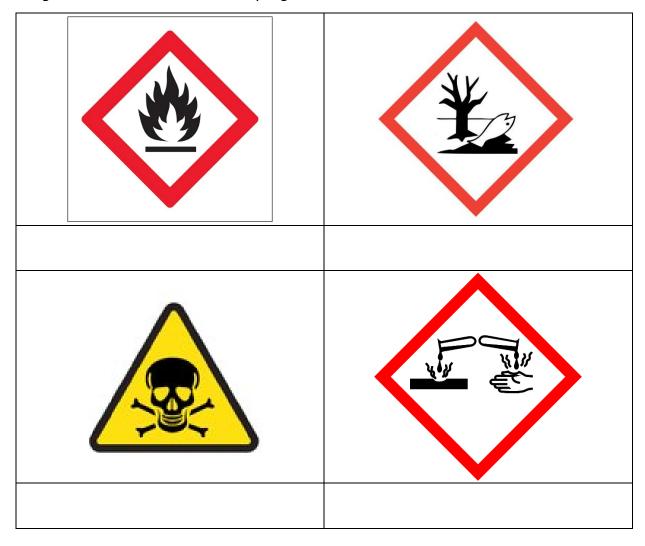
A) From the pictures below, identify the: saw and safety shoes.



#### B) Match personal protective equipment to their functions.

Personal protective equipment		Function
Wellingtons		Protecting person from the sun
Respirator		Protecting person from pesticide fumes
Sun hat	nat	Protecting person's feet from mud
Garden gloves		Protecting person's hands from splinters and

#### C) Recognise these Health and Safety signs



D) Identify the irrigation equipment items: tee and garden sprinkler.



E) Match irrigation fittings to their application.

Fittings	Function
Tee	Opening or closing an irrigation main line
End-cap	Terminating a water line
Stop-cock	Make a 90° joint between 2 pipes.
Elbow	Joining a pipe to produce a new water supply line

F) By referring to <b>pressure</b> and <b>flowrate</b> discuss why different tubing diameters are normally used in an irrigation system.

G) Outline a reason for the preventive measures required for maintaining a safe work environment.
Availability of personal protective equipment:
Performing a risk assessment, minimising hazards to the minimum:
H) Describe the use of these First Aid box items.
Sterile eye wash:
Surgical gloves:
I) Explain how to deal with a burn injury when giving first aid.

## Task 3 Producing new plants from cuttings 100% practical task prepared by Teacher

- A) Take a number of suitable cuttings following good procedures.
- B) Plant at least 10 cuttings following good procedures for successful growing.
- C) Do your best to grow those cuttings into new healthy plants. (10 marks)

#### Task 4 Materials and the science of propagating crops (12 marks)

A) List 2 types of media used for plant propagation and growth.

Ty List 2 types of media asea for plant propagation and growth.			
Medium 1:	Medium 2:		
B) State which growth medium can be used for the following applications:			
Open field production:  Production of seedlings:			

C) List 1 advantage and 1 disadvantage for 2 of the growth media you listed above.

Growth medium	Advantage	Disadvantage

U) List 2 tools and material required to graf	D) List 2 tools and material required to graft a plant.			
1:	2:			
E) Mention 2 considerations required to grafe Consideration1:	t a plant.			
Consideration 2:				
F) Describe 2 benefits of grafted plants.  Benefit 1:				
Benefit 2:				
G) Mention 2 types of germination.				

H) Outline why the conditions below are very important for propagation of plants.
Sheltering:
Free from pathogens and pests:
I) Describe how you propagate the plant below.
Cauliflower by seeding:
A spider plant by runners:

#### **OBSERVATION SHEET EXEMPLAR**

#### Observation Sheet Assignment 1 - Topics 1 & 2

Student Name and Surname: Class:

A-1	Form a straight ridge with a furrow on each side in soil using appropriate tools and PPEs.				
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks	
	Forms a non-uniform	Forms a ridge that is	Forms a neat and	Forms a neat and	
	ridge.	not straight.	straight ridge.	straight ridge.	
	Forms furrows on each side of the ridge but are	Forms furrows on each side of the ridge but are	Forms furrows on each	Forms neat and	
	non-uniform.	non-uniform.	side of the ridge but are non-uniform.	straight furrows on each side of the ridge.	
	Uses the appropriate	Uses the appropriate	Uses the appropriate	Uses the appropriate	
	tools.	tools.	tools.	tools.	
	NB: if PPEs are not				
	used no marks are to be awarded.				
A-1	Practice routine work th	nat is required in a field o	r garden.		
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks	
	Student does not achieve mastery in any of the below skills but was able to conduct 2	Student shows mastery of skill in 1 out of the below skills.  Skills:	Student shows mastery of skill in 2 out of the below skills.  Skills:	Student shows mastery of skill in a minimum of 3 out of the below skills.	
	activities involving the below skills with guidance. Skills: De-weeding and/or tilling and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or repotting followed by proper watering.	De-weeding and/or tilling and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or repotting followed by proper watering.	De-weeding and/or tilling and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or repotting followed by proper watering.	Skills: De-weeding and/or tilling and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or re- potting followed by proper watering.	
A-1	Successfully grow a tra	y of seedlings.			
	□ 1 mark	☐ 2 marks	☐ 3 marks	☐ 4 marks	
	Student has independently conducted 1 of the below tasks in a skilful manner:  • Filling tray with given medium and seeding appropriately.  • Topping tray and irrigating appropriately.  • Production of mature seedlings with a success rate of not less than 50%.  • Production of mature seedlings with a success rate of not less than 50%.	Student has independently conducted 2 of the below tasks in a skilful manner:  • Filling tray with given medium and seeding appropriately.  • Topping tray and irrigating appropriately.  • Production of mature seedlings with a success rate of not less than 50%.  • Production of mature seedlings with a success rate of not less than 50%.	Student has independently conducted 3 of the below tasks in a skilful manner:  • Filling tray with given medium and seeding appropriately.  • Topping tray and irrigating appropriately.  • Production of mature seedlings with a success rate of not less than 50%.  • Production of mature seedlings with a success rate of not less than 50%.	Student has independently conducted all of the below tasks in a skilful manner:  • Filling tray with given medium and seeding appropriately.  • Topping tray and irrigating appropriately.  • Production of mature seedlings with a success rate of not less than 50%.  • Production of mature seedlings with a success rate of not less than 50%.	
Comi	rtnan 80%. ments and teacher's signa		unan 6070.	uran 00%.	

A-2	Use the correct tools and procedure to take viable cuttings.						
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks			
	Student conducts all	Student conducts 1	Student conducts 2	Student conducts all 3			
	tasks successfully but required assistance	task with zero	tasks with zero assistance:	tasks with zero assistance:			
	for all tasks:	assistance:  ■ Sanitization of tools	● Sanitization of tools	● Sanitization of tools			
	Sanitization of tools	Proper utilisation of	Proper utilisation of	Proper utilisation of			
	<ul><li>Proper utilisation of</li></ul>	tools.	tools.	tools.			
	tools.	Taking of correct	Taking of correct	Taking of correct			
	<ul><li>Taking of correct cuttings from a</li></ul>	cuttings from a healthy mother plant.	cuttings from a healthy mother plant.	cuttings from a healthy mother plant.			
	healthy mother plant.	NB: if PPEs are not	NB: if PPEs are not	NB: if PPEs are not			
	NB: if PPEs are not	used no marks are to	used no marks are to	used no marks are to			
	used no marks are to	be awarded.	be awarded.	be awarded.			
A 0	be awarded.						
A-2		dure to plant a number of	1	□ 0 m o m to			
	□ 0.5 marks	☐ 1 mark	☐ 2 marks	☐ 3 marks Student conducts all 3			
	Student conducts all tasks successfully but	Student conducts 1 task with zero	Student conducts 2 tasks with zero	tasks with zero			
	required assistance	assistance:	assistance:	assistance:			
	for all tasks:	<ul><li>Select the</li></ul>	<ul><li>Select the</li></ul>	<ul><li>Select the</li></ul>			
	• Select the	appropriate container	appropriate container	appropriate container			
	appropriate container	according to the type of cutting.	according to the type of	according to the type of			
	according to the type of cutting.	Select the	cutting.  • Select the	cutting.  ■ Select the			
	• Select the	appropriate media	appropriate media	appropriate media			
	appropriate media	according to the type of	according to the type of	according to the type of			
	according to the type	cutting.	cutting.	cutting.			
	of cutting.  ● Correct orientation	<ul> <li>Correct orientation of cutting.</li> </ul>	<ul> <li>Correct orientation of cutting.</li> </ul>	<ul> <li>Correct orientation of cutting.</li> </ul>			
	of cutting.	NB: if PPEs are not	NB: if PPEs are not	NB: if PPEs are not			
	NB: if PPEs are not	used no marks are to	used no marks are to	used no marks are to			
	used no marks are to	be awarded.	be awarded.	be awarded.			
	be awarded.						
Λ 🤈	Successfully grow a pu	imbor of outtings					
A-2	Successfully grow a nu		□ 3 marks	□ 4 marks			
A-2	□ 1 mark	☐ 2 marks	☐ 3 marks	☐ 4 marks			
A-2	☐ 1 mark Minimum attempt where student	☐ 2 marks Student conducts all tasks successfully but	☐ 3 marks Student conducts all 1 task with zero	☐ 4 marks Student conducts all 2 tasks with zero			
A-2	☐ 1 mark Minimum attempt where student conducts all tasks	☐ 2 marks Student conducts all tasks successfully but required assistance for	Student conducts all 1 task with zero assistance:	Student conducts all 2 tasks with zero assistance:			
A-2	☐ 1 mark Minimum attempt where student conducts all tasks successfully but	☐ 2 marks Student conducts all tasks successfully but required assistance for all tasks:	Student conducts all 1 task with zero assistance:  Fill container with	Student conducts all 2 tasks with zero assistance:  Fill container with			
A-2	☐ 1 mark  Minimum attempt where student conducts all tasks successfully but required assistance	☐ 2 marks  Student conducts all tasks successfully but required assistance for all tasks:  ● Fill container with	Student conducts all 1 task with zero assistance:  Fill container with media and cutting as	Student conducts all 2 tasks with zero assistance:  Fill container with media and cutting as			
A-2	☐ 1 mark Minimum attempt where student conducts all tasks successfully but	☐ 2 marks  Student conducts all tasks successfully but required assistance for all tasks:  ● Fill container with media and cutting as	Student conducts all 1 task with zero assistance:  Fill container with	Student conducts all 2 tasks with zero assistance:  Fill container with			
A-2	☐ 1 mark  Minimum attempt where student conducts all tasks successfully but required assistance for all tasks: ● Fill container with media and cutting as	☐ 2 marks  Student conducts all tasks successfully but required assistance for all tasks:  ● Fill container with media and cutting as required for specific plant.	Student conducts all 1 task with zero assistance:  Fill container with media and cutting as required for specific plant.  Regular watering as	Student conducts all 2 tasks with zero assistance:  Fill container with media and cutting as required for specific plant.  Regular watering as			
A-2	☐ 1 mark  Minimum attempt where student conducts all tasks successfully but required assistance for all tasks: ● Fill container with media and cutting as required for specific	☐ 2 marks  Student conducts all tasks successfully but required assistance for all tasks:  ● Fill container with media and cutting as required for specific plant.  ● Regular watering as	Student conducts all 1 task with zero assistance:  Fill container with media and cutting as required for specific plant.  Regular watering as required for specific	Student conducts all 2 tasks with zero assistance:  Fill container with media and cutting as required for specific plant.  Regular watering as required for specific			
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A-2	☐ 1 mark Minimum attempt where student conducts all tasks successfully but required assistance for all tasks: ● Fill container with media and cutting as required for specific plant. ● Regular watering as required for specific plant. However	□ 2 marks  Student conducts all tasks successfully but required assistance for all tasks:  ● Fill container with media and cutting as required for specific plant.  ● Regular watering as required for specific plant.  and  ● Production of new plant via cutting with a	Student conducts all 1 task with zero assistance: Fill container with media and cutting as required for specific plant. Regular watering as required for specific plant. and Production of new plant via cutting with a success rate of not less	Student conducts all 2 tasks with zero assistance: Fill container with media and cutting as required for specific plant. Regular watering as required for specific plant. and Production of new plant via cutting with a success rate of not less			
A-2	☐ 1 mark Minimum attempt where student conducts all tasks successfully but required assistance for all tasks: ● Fill container with media and cutting as required for specific plant. ● Regular watering as required for specific plant. However success rate less than	□ 2 marks  Student conducts all tasks successfully but required assistance for all tasks:  ● Fill container with media and cutting as required for specific plant.  ● Regular watering as required for specific plant.  and  ● Production of new plant via cutting with a success rate of not	Student conducts all 1 task with zero assistance:  Fill container with media and cutting as required for specific plant.  Regular watering as required for specific plant.  Production of new plant via cutting with a success rate of not less than 75%.	Student conducts all 2 tasks with zero assistance:  Fill container with media and cutting as required for specific plant.  Regular watering as required for specific plant.  Production of new plant via cutting with a success rate of not less than 75%.			
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# SAMPLE CONTROLLED ASESSMENT

#### WRITTEN PAPER

	APPLIED VOCATIONAL CERTIFICATE						
YEAR 9	in Agribusiness						
Name:		Class:					
UNIT:	1						
ASSIGNMENT:	3 of 3						
TITLE:							
ISSUE DATE:	NA						
DEADLINE:	NA						

#### **GENERAL INSTRUCTIONS**

- Application criteria will be assessed in class.
- The time required to complete practical tasks will be communicated by the teacher.
- Students can answer either in English or in Maltese.
- Copying will not be tolerated.

#### **SECTION A**

Question 1	K-6 (4 marks)

(1)

Match the fish species with their respective habitat.	
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Fish Species	Habitat
African Cichlids	Cold fresh water
Koi	Marine tropical
Guppies	Brackish
Clownfish	Tropical stone-scaped

b. List **FOUR** water parameters that should be monitored to maintain a healthy fish tank.

Parameter 1:	
Parameter 2:	
Parameter 3:	
Parameter 4:	. (1

Habitat	Water Parameter 1	Water Parameter 2	
Cold freshwater housing goldfish			
Brackish water housing mollies			
Tropical planted fresh water, housing tetras			
Marine Mediterranean, housing Seabream			
Question 2	oone of a cube will be used for <b>TEN</b>	C-2 (6 mai	
a. A fish tank of 200 litres in the sh		<b>N</b> Koi. (2)	
i. The Koi's size ☐ Yes  Justify your answer:	□No		
ii. The Koi's swimming pattern  Justify your answer:			
b. Explain <b>TWO</b> benefits of water of Benefit 1:	change of a fish tank.		
			(1)

(2)

c. Outline  $\mathbf{FOUR}$  fish habitats in relation to  $\mathbf{TWO}$  water parameters.

Benefit 2:	
	(1)
c. Discuss the importance of using limestone rocks as décor when keeping African Cichlids.	
	(2)

#### **SECTION B - Practical**

#### Question 1 A-3 (10 marks)

- a. Feed the right type and quantity of food according to the fish in the running fish tank.
- b. Record, following testing, using suitable materials, the water parameters listed.
- c. Conduct a water change on the running fish tank taking into consideration all Health and Safety procedures. You will only be allowed to carry out this task if you follow Health and Safety procedures.

To be answered in practical sheet provided by teacher

#### PRACTICAL STUDENTS' SAMPLE PAPER

YEAR 9

Name:	Class:						
SECTION B - PRACTICAL	SECTION B - PRACTICAL						
Background Information							
You have been practicing fish ke	eeping tasks for some tir	me at the fish room.					
It is now time to show your skills	s in fish keeping.						
Question 1		A-3 (10 mar					
<ul><li>a. Feed the right type and quantity</li><li>b. Record, following testing, using below.</li></ul>		e fish in the running fish tank. water parameters listed in the record car					
Record Card							
Parameter	Value	Is it Too high? Too Low? OK?					
Nitrites (NO <sub>2</sub> -)							
Nitrates (NO₃⁻)							
Hardness (GH) value in <sup>0</sup> (degrees of hardness)							
pH							
Chlorine (Cl <sub>2</sub> )							
Temperature in degrees Calsius (°C)							

**APPLIED VOCATIONAL CERTIFICATE in AGRIBUSINESS** 

c. Conduct a water change on the running fish tank taking into consideration all Health and Safety procedures. You will only be allowed to carry out this task if you follow Health and Safety procedures.

THIS SHEET SHOULD BE RETURNED TO THE TEACHER AFTER THE PRACTICAL SESSION/S

#### YEAR 9 APPLIED VOCATIONAL CERTIFICATE in AGRIBUSINESS

#### **GENERAL INSTRUCTIONS**

- These guidelines are being provided to indicate the materials / consumables / logistics required in preparation for the assessment of application criteria related to Assignment 3.
- This document is an extract from the Marking Scheme document which will be sent to schools when Assignment 3 is published.
- Information contained within this document is NOT to be disclosed to students prior to the publication of this assignment.
- Any instructions or details that need to be conveyed to students as indicated within the document itself – should only be communicated following the said publication date.
- Evidence of the work done by students should be kept by teacher for future reference if needed (example: photos, video clips etc).

#### **PRACTICAL ASSESSMENT GUIDELINES FOR TEACHERS**

#### Section B - Question 1 Criterion A-3

Recommended Estimated Time for completion: 60 minutes

#### Preparation

- If the fish room can accommodate up to 16 students working all together, the shole group can perform practical session altogether.
- ONE running fish tank housing fish or other animals is to be assigned per student.
- All feeds specific to fish tanks utilised for practical session are to be made available during session.
- A water test kit per student is to be made available.
- A gravel cleaner or siphon is to be made available for every student.
- Access to dechlorinator solution/ water conditioner is to be made available to all students. It is suggested that a number of small bottles are used during session rather than a large stock solution.

Before starting the practical assessment, the teacher should:

- Print a practical sheet per student.
- Print an observation sheet per student.
- Fill in student details for every observation sheet.
- Make sure that main electrical switch/circuit breaker to interrupt electrical supply to all tanks is in correct operation.
- Make sure that water supply valve to interrupt water supply to all tanks is in correct operation.

#### Information to be conveyed to students

- No group work is acceptable during any of the practical session.
- Anyone not adhering to Health and safety practices will be stopped immediately and not allowed to continue practical session.
- Whilst utilising fish feeds, students are to make sure not to waste food, wet the food in the container and to return it back to its original place after use.
- Values in part b are to be recorded using blue or black pen.
- All consumables are to be disposed of appropriately after use.
- Students to be informed about wearing the proper PPEs and to adhere to proper health and safety practices. Failure to do so, will result in loss of **ALL** marks for the practical.

#### SAMPLE CONTROLLED ASSESSMENT MARKING SCHEME

Criteria Reference	The candidate should be able to:	Section & Question Number	Maximum marks that can be achieved	Allocation of marks NOT to be subdivided any further than indicated below	Examples of expected answer
		Section A			
		Q1	4		
	Level 1: Match FOUR fish species to their respective habitat.	а	1	Award 0.25 marks for each correct match. (0.25 x 4 = 1 mark)	Fish Species  African Cichilids  Cold fresh water  Koi  Marine tropical  Guppies  Brackish  Clownfish  Tropical stone-scaped
K-6	Level 2: List FOUR water parameters that should be monitored to keep a healthy fish tank.	b	1	Award 0.25 marks for each correct water parameter. (0.25 x 4 = 1 mark)	Accept any <b>FOUR</b> of the following parameters: ammonia, nitrites, nitrates, pH, hardness, phosphates, salinity.  Accept other valid answers.
	Level 3: Outline FOUR fish habitats in relation to water parameters.	С	2	Award 0.25 marks for each correct parameter. (0.25 x 8 = 2 marks)	Example of a good outline: Brackish tank housing mollies: Water parameter 1: Water should be slightly saline. Water parameter 2: Water should be slightly alkaline. Accept any other valid outline.
		Q2	6		
C-2	<b>Level 1</b> : Justify the size of a given aquarium for ONE given fish species.	а	2	Award 0.5 marks for each correct bullet. (0.5 x 4 = 2 marks)	<ul> <li>i.</li> <li>No.</li> <li>Koi grow to around 60cm and tank is too small.</li> <li>ii.</li> <li>No.</li> <li>Koi swim in schools just below the surface; a cubic tank is not ideal for this.</li> <li>Accept other suitable answers</li> </ul>
	<b>Level 2</b> : Explain TWO benefits of water change of a fish tank.	b	2	Award 1 mark for each correct bullet. (1 x 2 = 2 marks)	- reduction of pollutants: pollutant such as nitrates accumulate in the tank. The water change will reduce them removal of debris: Debris, especially from fish waste accumulated at the bottom of the tank. Using a gravel cleaner, one will siphon off this debris.  Accept other suitable answers.

	Level 3: Discuss the importance of ONE aquarium décor item in relation to fish health of a given species.	С	2	each correct reason. (1 x 2 = 2 marks)  NB: if reasons are just mentioned, not	Limestone rocks are an important part of an African Cichlid tank for 2 main reasons.  Reason 1: Limestone will make the water alkaline which mimics the conditions of the lakes such fish originally come from.  Reason 2: Rocks will produce caves and hiding places which are essential due to the highly territorial nature of these fish.  Accept other suitable answers.
		SECTION B			
		Q1	10		
	Level 1: Give the right quantity of the right feed to fish in a running fish tank.	а	3	Award marks as per observation sheet rubric	Refer to observation sheet rubric
A-3	Level 2: Record water parameters for a given fish tank.	b	3	Award marks as per observation sheet rubric	Refer to observation sheet rubric
	Level 3: Conduct a water change for a running fish tank.	С	4	Award marks as per observation sheet rubric	Refer to observation sheet rubric

#### SAMPLE CONTROLLED ASSESSMENT OBSERVATION SHEET

#### **OBSERVATION SHEET A-3**

#### NOT TO BE DISTRIBUTED TO STUDENTS

Activity requirements to meet grading criterion							
A-3	A-3 Question 1a						
□ 0.5 marks		□ 1 mark □ 2 marks		□ 3 marks	Comments		
Student conducts all tasks successfully but required assistance for all tasks.		Student conducts 1 task with zero assistance:  - Selection of correct feed for given fish tank Correct amount of fish feed Proper feeding technique.	tasks with zero assistance:  - Selection of correct feed for given fish tank Correct amount of fish feed.	all 3 tasks with zero assistance:  - Selection of correct feed for given fish tank Correct amount of fish feed.			
A-3		Question 1b			3 Marks		
□ 0.5 mar	ks	□ 1 mark	☐ 2 marks ☐ 3 marks		Comments		
Student measures and records successfully all 6 water parameter listed below requiring assistance for both measuring parameters and recording results: Chlorine, Nitrates, Nitrites, pH, Water hardness, Temperature.		successfully all 6 water parameter listed below with zero assistance:	and records successfully all 6 water parameter listed below requiring assistance for recording results: Chlorine, Nitrates,	Student measures and records successfully all 6 water parameter listed below with zero assistance: Chlorine, Nitrates, Nitrites, pH, Water hardness, Temperature.			

# SELF-REFLECTION JOURNAL AVC AGRIBUSINESS

Name: \_\_\_\_\_

Cohort: 202\_\_ / 202\_



# SECTION A: Year 9



A -1 Practice work to successfully grow a full row of plants from seed to maturity.

- Form a straight ridge with a furrow on each side in soil using appropriate tools and PPEs.
- Practice routine work that is required in a field or garden.
- Successfully grow a tray of seedlings.











In which parts of the practical task did I do well?
Which parts of the practical task did I like most?
Which parts of the practical task did I dislike most?
How can I improve in this practical task?

#### A -2 Grow a number of cuttings by following the correct procedures.

- Use the correct tools and procedure to take viable cuttings.
- Use the correct procedure to plant a number of cuttings.
- Successfully grow a number of cutting.











In which parts of the practical task did I do well?	
Which parts of the practical task did I like most?	
Which parts of the practical task did I dislike most?	
How can I improve in this practical task?	

#### A -3 Conduct routine aquarist tasks.

- Give the right quantity of the right feed to fish in a running fish tank.
- Record water parameters for a given fish tank.
- Conduct a water change for a running fish tank.











In which parts of the practical task did I do well?
Which parts of the practical task did I like most?
Which parts of the practical task did I dislike most?
How can I improve in this practical task?

#### A -4 Conduct routine tasks to keep mammalian pets.

- Clean the cage/housing of a given mammalian pet.
- Give the right quantity of feed to a given mammalian pet according to the given life stage.
- Use the correct procedure for handling a given mammalian pet.











In which parts of the practical task did I do well?
Which parts of the practical task did I like most?
Which parts of the practical task did I dislike most?
How can I improve in this practical task?

#### A -5 Conduct routine tasks to keep avian pets.

- Clean the cage/housing of a given avian pet.
- Give the right quantity of feed to a given avian pet according to the given life stage.
- Use the correct procedure to set-up a nest box.











In which parts of the practical task did I do well?
Which parts of the practical task did I like most?
Which parts of the practical task did I dislike most?
How can I improve in this practical task?

### **End of Year 9 self-evaluation mark**

Total of Marks obtained in Year 9 (max. 50)	
MySchool mark (Divide total of marks by 10 – max. 5)	
Name of teacher:	
Signature of teacher:	
Name of internal verifier:	
Signature of internal verifier:	

# SECTION B: Year 10



#### A - 6 Conduct tasks pertaining to landscaping.

- Transplant a number of plants in a garden area according to a given site.
- Practice techniques for raising soil beds and creating ridges ('konka' + 'gefun') around the plants transplanted in your garden area.
- Lay an irrigation system for your garden area as per given plan.



In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
Skills within this practical task build on those gained in A1 and A2 in year 9. Has my confidence especially with tools, changed from last year?
How can I improve in this practical task?

#### A - 7 Practice routine work that is important for garden upkeep.

- Prepare pruning tools for use and storage.
- Maintain a given garden area over a period of time under supervision.
- Conduct a given pruning task under supervision.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
Part of this practical task included the upkeep of a garden over a period of time. Was I satisfied with the progress of the garden as a result of my work? How?
How can I improve in this practical task?

A - 8 Undertake tasks leading to a healthy fish tank that is visually pleasing.

- Set-up an aquarium with the necessary equipment and décor.
- Prepare an aquarium to make it suitable to host the given biota.
- Maintain an aquarium for a period of time.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
Skills within this practical task build on those gained in A3 in year 9. Has my confidence in working with fish changed from last year?
How can I improve in this practical task?

#### A-9 Record results of an animal health check.

- Conduct a health check for a given animal using basic veterinary nursing equipment.
- Record the results of an animal health checklist to assess overall health status of a given animal.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
How did I feel whilst performing and recording the animal health check?
How can I improve in this practical task?

#### A – 10 Practice animal grooming techniques.

- Select the appropriate grooming tools for a given grooming task.
- Conduct grooming of a given animal under supervision.
- Maintain grooming tools appropriately.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
I think I would prefer working on pets, farm or zoo animals? Why?
How can I improve in this practical task?

#### A – 11 Practice basic apicultural tasks.

- Wear the appropriate apicultural PPEs successfully as part of your preparation to access the apiary.
- Set-up a beehive correctly to be able to host a bee colony.
- Light-up a bee smoker safely.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
How do I feel about wearing all those PPEs?
How can I improve in this practical task?

## A – 12 Practice tasks involved in the running of layer hens.

- Collect eggs and store appropriately.
- Clean and disinfect chicken coop including the drinker/feeder system.
- Replenish feeders and drinkers appropriately.











In which parts of the practical task did I do well?	
Which parts of the practical task did I find most challenging?	
I prefer working on the farm with animals or plants? Why?	
How can I improve in this practical task?	

A – 13 Conduct tasks relevant to producing chicks under supervision.

- Set eggs for incubation following good practice.
- Follow instructions to operate an egg incubator.
- Follow instructions to host chicks in a brooder.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
I would hatch my own chicks or buy? Why?
How can I improve in this practical task?

# **End of Year 10 self-evaluation mark**

Total of Marks obtained in Year 10 (max. 80)	
MySchool mark (Divide total of marks by 16 – max. 5)	
Name of teacher:	
Signature of teacher:	
Name of internal verifier:	
Signature of internal verifier:	

# SECTION C: Year 11



# **A – 14** Participate in a honey beehive inspection.

• Follow instructions to conduct a beehive inspection under supervision.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
Is the general fear of bees justified?
How can I improve in this practical task?

**A – 15** Produce a range of cottage industry products under supervision.

- Prepare ingredients and containers for the preparation of a range cottage industry products under supervision.
- Process and transfer to suitable packaging a range of cottage industry products under supervision.
- Label a range of cottage industry products under supervision.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
Would I buy cottage industry products? Why?
How can I improve in this practical task?

A – 16 Produce a range of crops that will be used for the preparation of cottage industry products.

- Sow/transplant a range of crops that will be used for the preparation of cottage industry products.
- Maintain a range of crops until maturity that will be used for the preparation of cottage industry products.
- Harvest crops that will be used for the preparation of cottage industry products.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
How did my skills in crop production progress over the three years?
How can I improve in this practical task?

# **A – 17** Apply fertiliser following instructions under supervision.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
How do I feel about the use of PPEs whilst applying fertilisers?
How can I improve in this practical task?

#### A – 18 Practice tasks involved in the running of a rabbitry.

- Remove any debris stuck to the wire and the accessories in cages.
- Clean and disinfect the rabbitry including the drinker/feeder system.
- Replenish feeders and drinkers (where applicable) appropriately.











In which parts of the practical task did I do well?
Which parts of the practical task did I find most challenging?
How did my confidence in working with animals progress over the three years?
How can I improve in this practical task?

A – 19 Conduct tasks relevant to producing rabbits under supervision.

- Examine a rabbit to determine its sex and health condition.
- Select a suitable breeding pair of rabbits.
- Follow instructions to carry out tasks required for a rabbit breeding programme.









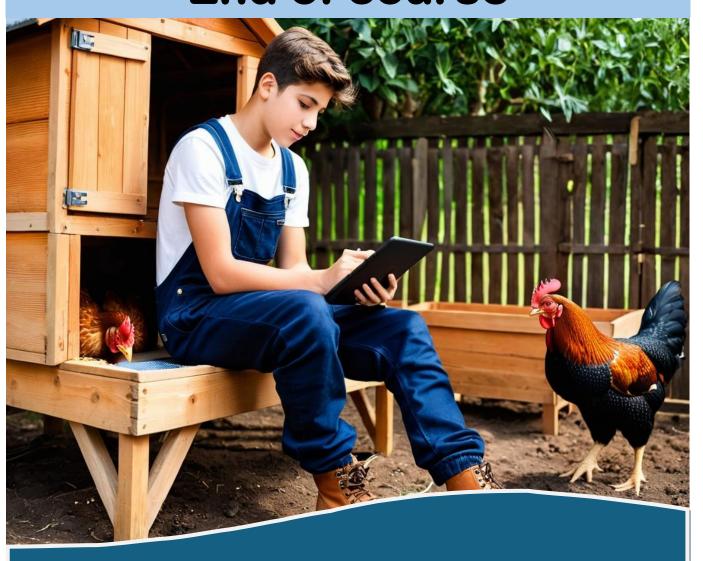


In which parts of the practical task did I do well?		
Which parts of the practical task did I find most challenging?		
How did I feel about producing animals intended for consumption?		
How can I improve in this practical task?		

# Year 11 practical self-evaluation mark

Total of practical self-evaluation marks obtained in Year 11 (max. 60)	
Assessment mark (Divide total of marks by 12 – max. 5)	
Name of teacher:	
Signature of teacher:	
Name of internal verifier:	
Signature of internal verifier:	

# SECTION D: End of course



My favourite topics (2) of the subject are and why?			
The topics I dislike (2) in the subject are and why?			
The AVC Agribusiness course helped me develop these skills?			
Would I further my studies in Agribusiness or pursue a career within this sector? Why?			

# **End of Year 11 self-evaluation mark**

A	End of course evaluation mark (max. 10)
В	Adjusted End of course evaluation mark (Divide A by 2 - max. 5)
С	Year 11 assessment mark (max. 5)
D	Total of end of course and assessment marks (A + C MySchool mark – max. 10)
E	Name of teacher:
F	Signature of teacher:
G	Name of internal verifier:
н	Signature of internal verifier:

# MARKING SCHEME FOR SELF-EVALUATION EXERCISE – AVC AGRIBUSINESS

#### Section A - Year 9

#### Total of 5 evaluations at 10 marks each

General Section A – Year 9 correction rubric				
		Award 2 marks per entry		
Questions:	criteria: - Related to pi	Maximum 2 marks each where answers should be graded according to the following criteria:  - Related to practical task Presents evidence of self-reflection.		
	• •	<ul> <li>Supports statements with reasons.</li> <li>Provided in suitable detail with respect to complexity of practical task.</li> </ul>		
	0.5 marks			
	Answer includes 1	Answer includes 2	Answer includes 3	Answer includes 4
	out 4 criteria	out 4 criteria	out 4 criteria	out 4 criteria
	above.	above. above. above. above.		above.

Total mark	MySchool mark	Value of self-reflection booklet
Total of marks for each	Total marks ÷ 10 =	Assessment mark is part of cumulative mark for Year 11
evaluation sheet. 5 sheets	Assessment mark to be	(20%)
x 10 marks each = 50	inputted in Year 9	
marks maximum.	MySchool portal	Failure to submit self-reflection task will impact AVC
	(maximum 5 marks).	level or disqualify students from obtaining certificate.

#### Section B - Year 10

#### Total of 8 evaluations at 10 marks each

General Section B – Year 10 correction rubric				
	Award 2 marks per entry			
Questions:	Questions: Maximum 2 marks each where answers should be graded according to the following			ding to the following
	criteria:			8
	- Related to pr	actical task.		
	- Presents evidence of self-reflection.			
	- Supports statements with reasons.			
	- Provided in suitable detail with respect to complexity of practical task.			
	0.5 marks 1 mark 1.5 marks 2 marks			2 marks
	Answer includes 1	Answer includes 2	Answer includes 3	Answer includes 4
	out 4 criteria	out 4 criteria	out 4 criteria	out 4 criteria
	above. above. above. above.			

Total mark	MySchool mark	Value of self-reflection booklet
Total of marks for each	Total marks ÷ 16 =	Assessment mark is part of cumulative mark for Year 11
evaluation sheet. 8 sheets	Assessment mark to be	(20%)
x 10 marks each = 80	inputted in Year 10	
marks maximum.	MySchool portal	Failure to submit self-reflection task will impact AVC
	(maximum 5 marks).	level or disqualify students from obtaining certificate.

## Section C - Year 11

#### Total of 6 evaluations at 10 marks each

General Section C – Year 11 correction rubric				
	Award 2 marks per entry			
Questions:	Maximum 2 marks e	ach where answers sh	nould be graded accor	ding to the following
	criteria:			
	<ul> <li>Related to pr</li> </ul>	actical task.		
	- Presents evidence of self-reflection.			
	- Supports statements with reasons.			
	- Provided in suitable detail with respect to complexity of practical task.			
	0.5 marks 1 mark 1.5 marks 2 mark		2 marks	
	Answer includes 1	Answer includes 2	Answer includes 3	Answer includes 4
	out 4 criteria	out 4 criteria	out 4 criteria	out 4 criteria
	above. above. above. above.		above.	

Total mark	MySchool mark	Value of self-reflection booklet
Total of marks for each	Total marks ÷ 12 =	Assessment mark is part of cumulative mark for Year 11
evaluation sheet. 6 sheets	Assessment mark to be	(20%)
x 10 marks each = 60	added to mark obtained	
marks maximum.	from section D (maximum	Failure to submit self-reflection task will impact AVC
	5 marks).	level or disqualify students from obtaining certificate.

#### Section D - End of Course

End of Course correction rubric				
Questions:	Maximum 2 marks each where answers should be graded according to the following			
	criteria:			
	<ul> <li>Related to al</li> </ul>	l of the AVC Agribusin	ess course.	
	- Presents evid	dence of self-reflectio	n.	
	- Supports statements with reasons.			
	- Demonstrates growth.			
	0.5 marks 1 mark 1.5 marks 2 marks			2 marks
	Answer includes 1 Answer includes 2 Answer includes 3 Answer inclu		Answer includes 4	
	out 4 criteria	out 4 criteria	out 4 criteria	out 4 criteria
	above.	above.	above.	above.

Section D assessment	MySchool mark	Value of self-reflection booklet
mark		
2023/26 Cohort only:	2023/26 Cohort only:	Assessment mark is part of cumulative mark for Year 11
Total of marks = 10 marks	Section D assessment	(20%):
maximum.	mark + Section C	5 marks (Section A) + 5 marks (Section B) + 5 marks
	MySchool mark	(Section C) + 5 marks (Section D) = Max. total 20 marks.
2024/27 Cohort onwards:	(maximum 15)	
Total of marks ÷ 2 = 5		
marks maximum.	2024/27 Cohort onwards:	Failure to submit self-reflection task will impact AVC
	Section D assessment	level or disqualify students from obtaining certificate.
	mark + Section C	, .
	MySchool mark	
	(maximum 10)	

ANNEXE A – UNIT	DISTRIBUTION	PLAM TEMPL	ATE

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Unit Distribution Plan for Scholastic Year	
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# Assignment 1

Period	Activity	Persons involved
	Writing Assignment Brief 1	
	Handing over of Assignment Brief 1 to IV	
	Internal Verification of Assignment Brief 1	
	Assignment Brief 1 issued	
	Assignment Brief 1 deadline	
	Correction of Assignment 1	
	Handing over of Students Work for Assignment 1 to IV	
	Internal Verification of Students Work for Assignment 1	
	Moderation	

# Assignment 2

Period	Activity	Persons involved
	Writing Assignment Brief 2	
	Handing over of Assignment Brief 2 to IV	
	Internal Verification of Assignment Brief 2	
	Assignment Brief 2 issued	
	Assignment Brief 2 deadline	
	Correction of Assignment 2	
	Handing over of Students Work for Assignment 2 to IV	
	Internal Verification of Students Work for Assignment 2	
	Moderation	

#### **Controlled Assessment**

Period	Activity	Persons involved	
	Controlled Assessment is held		
	Correction of Controlled Assessment		
	Handing over of Students Controlled Assessment to IV		
	Internal Verification of Students Controlled Assessment		
	Moderation		

#### ANNEXE B - MINIMUM RESOURCES TO OFFER SUBJECT WITHIN SCHOOLS

#### **General Agricultural Requirements**

- Preferably, minimum 2 tumuli of arable land and suitable for cultivation
- Greenhouse
- Propagation house
- Manure clamp
- Storage for agricultural machinery and workshop
- Adequate supply of second-class water for irrigation
- Storage for agricultural tools
- Storage for fertiliser and pesticides
- Storage for fodder and animal feed

#### **Ancillary Requirements**

- Dressing rooms with lockers and WC for teachers
- Dressing rooms with lockers and WC for technical staff
- Dressing rooms with lockers and WC for students
- Access to water fountains

- Classroom with interactive monitor or LCD projector
- Access to science laboratory
- Access to food lab
- Washing machine
- Tumble drier

#### **Rabbitry**

- EU standard flat deck breeder cages
- Ventilation system with circulation and extraction.
- Fly zapper
- White board
- Rabbit scales up to 10kg
- Hygrometer and thermometer

- Drainage system to cesspit
- Buffer tank min. 20 litres
- Lighting fixtures with timer
- Sink with hot and cold water
- Rabbit cages with nest boxes, feeder and automatic nipple drinkers

#### **Fish Room**

- Aquaria with different capacities complete with light, filters, decor and heaters
- Aquarium thermometers
- Aquarium immersion heaters
- Water testing sets
- Aquarium magnetic glass cleaners
- Fish nets

- Aquarium submersible pump for water changes
- Air pumps
- Aquascaping substrates
- Aquascaping thongs, scissors and pincers
- Clip-on lighting
- White board

#### **Tools and machinery**

- String trimmer
- Fuel transport tanks
- Irrigation pipe punches
- Sprayer
- Industrial bins
- Manual sulfurator
- Pesticide face masks
- Grass cutting aprons
- Earmuffs
- Grass cutting visors

- Inter row cultivator
- Hedge trimmer
- Chain saw
- Shovel head hoes (zappun)
- Hoes (mgħażqa)
- Fork hoes
- Dibbers
- Riddles
- Rakes
- Pruning shears (secateurs)

- Wheel burrow
- Watering cans
- Min. 8.5Hp rotovator
- Pocket knives
- Hammer
- Sledgehammer
- Side cutter
- Heavy duty craft knife
- Wire brushes
- Large shifting spanner
- Hack saw
- Screw drivers set
- Irrigation pipes and several fittings
- Ball valves
- Submersible/centrifugal irrigation pump and several fittings
- Adjustable fertiliser dozers
- Irrigation timers
- Irrigation tubing of various diameters
- Drip tape
- String line

- Lopper
- Shovels
- Garden trowels
- Grafter knifes
- Pruning saws
- Folding hand saws
- Lineman Pliers
- Spanner set
- Allen keys
- Socket ratchet
- Heavy duty shelving
- Adjustable spanner
- Drill bits
- Measuring tapes
- Cordless hammer drill
- PVC pipe cutter
- Gas flame torch burner
- Refillable LPG cylinder
- Agricultural sprinklers (friefet)
- Heavy duty weighing scale (100kg +)

#### **Scientific Apparatus**

- Soil testing kit
- pH soil/temp probe
- One-piece regular soil auger
- Digital balance
- Glass beakers
- Hand magnifiers
- Retort Stands and clamps
- Glass rods
- Wash bottles
- Filter papers
- Safety glasses
- Stainless steel spatulas
- Plastic test tube racks
- Wooden test tube holder
- Soda glass boiling tubes with rim
- Economy test tubes (16x100mm)
- Digital microscope and slides

- Gratnell trays
- Student dissection kit
- Measuring cylinders (circa. 10ml, 100ml)
- Disposable Pasteur pipettes
- Glass funnels
- Conical flasks
- Test tubes brushes
- Hotplate
- First Aid boxes
- Eye washing station
- Dicot flower model
- Fish model
- Chicken model
- Rabbit model
- Handheld EC/TDS metre
- Handheld pH metre
- Digital weather station

#### Animal grooming and health

- Grooming table
- Veterinary table
- UV steriliser
- Nail cutter
- Coat brushes
- Clipper
- Coat trimming shears
- Coat combs

- Stripping knives
- Pet coat drier with variable speed
- Stethoscope
- Pet thermometer
- Vaccine injector
- Bathing station

#### **Apiculture**

-	Complete beehive boxes with supers	-	Honey ripener
-	Nucleus boxes	-	Honey strainer
-	Rapid bee feeders	-	Uncapping knives
-	Frame wire	-	Queen excluders
-	Wire crimper	-	Ventilated full body suits
-	Wire embedder	-	Bee keeping veils
-	Smoker and fuel	-	Bee keeping jackets
-	Hive tools	-	Beekeepers' gloves
-	Centrifugal honey extractor	-	Convection oven

#### **Poultry**

- Free range or barn or EU standard cage system	- Hen nesting box
for layer hens	- Electric brooder
- Poultry drinkers	- Egg candler
- Poultry feeders	- Poultry crates
- Chick drinkers	- Egg cartons
- Chick feeders	- Automated incubator

#### General pets

- Dwarf rabbit cages	- Dog/cat transport cage
- Small rodent cages	- Bird cages
- Aviary	- Bird nesting boxes for available cages
- Claw trimmer	- Feeder/drinker equipment

#### **Cottage industry**

- Access to food lab	- Digital food thermometer
- Sugar thermometers	- Food processor
- Stainless steel funnels (various sizes)	- Fine mesh strainers
- Minimum 5kg weighing scales	- Minimum 2000mL measuring jug

NB: Provided list of resources includes minimum requirements and thus, not exhaustive. Quantities of listed equipment should reflect number of students studying the subject. List does not include any consumable items and livestock.