





AGRIBUSINESS EDUCATION CENTRE



MINISTRY FOR EDUCATION, SPORT, YOUTH, RESEARCH AND INNOVATION DIRECTORATE FOR STEM AND VET PROGRAMMES



Contents

AVC Agribusiness Syllabus Content	3
Applied Vocational Certificate Programme	3
Subject Programme	3
Programme Learning Outcomes	4
Unit Learning Outcomes	6
Year 9 – Unit 1 – Introduction to Agribusiness	6
Year 10 – Unit 2 – Gardens and Animal care	6
Year 11 – Unit 3 – Agricultural Production and Processing	6
Assessment	7
Programme Certification	8
Quality Assurance	8
LIST OF TOPICS	9
Year 9 – Unit 1 – Introduction to Agribusiness	9
Year 10 – Unit 2 – Gardens and Animal care	9
Year 11 – Unit 3 – Agricultural Production and Processing	9
ASSESSMENT CRITERIA	10
TEACHERS' PACK SUPPLEMENT	33
RUBRIC FOR ASSESSMENT CRITERIA	34
Year 9	34
Year 10	45
Year 11	55
ASSIGNMENT BRIEF FRONTSHEET	60
ASSIGNMENT BRIEF EXEMPLAR	62
OBSERVATION SHEET EXEMPLAR	70
SAMPLE CONTROLLED ASESSMENT	72
WRITTEN PAPER	73
PRACTICAL STUDENTS' SAMPLE PAPER	77
SAMPLE PRACTICAL ASSESSMENT GUIDELINES FOR TEACHERS	78
SAMPLE CONTROLLED ASSESSMENT MARKING SCHEME	79
SAMPLE CONTROLLED ASSESSMENT OBSERVATION SHEET	81
SELF-REFLECTION JOURNAL TEMPLATE	83
MARKING SCHEME FOR SELF-EVALUATION EXERCISE – AVC AGRIBUSINESS	111
ANNEXE A – UNIT DISTRIBUTION PLAN TEMPLATE	112
ANNEXE B - MINIMUM RESOURCES TO OFFER SUBJECT WITHIN SCHOOLS	114



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 and rabbitries.

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 produce a number of cottage industry products.

Learning Outcome 11: I can produce a range of agricultural crops.

Learning Outcome 12: 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	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: Cottage industry production.

Topic 11: Crop production.

Topic 12: Rabbit farming.





Assessment Criteria

































YEAR 9 ASSESMENT CRITERIA



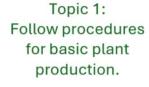












Topic 2: Propagate plants using different methods.

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

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





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

K1		se tools, equipment, PPEs and safety signs utilised within an ness setting.	4 marks
	Sub	Identify ONE tool and ONE piece of personal protective equipment that are used	Marks
Z	Criterion	in an agribusiness enterprise.	Part A
PARTA	Content	Tools: hoes, rake, spade, pocketknife, dibber, pruning shears, saw, hedge shears. PPEs: safety shoes, wellingtons, garden gloves, safety goggles, respirator, nitrile gloves, hazmat suit, sun hat.	1
PARTB	Sub Criterion	Match FOUR pieces of personal protective equipment to their functions.	Marks Part B
7	Content	Refer to Part A	1
PARTC	Sub Criterion	Recognise FOUR Health and Safety signs used in agricultural activity.	Marks Part C
PAF	Content	Health and Safety signage: flammable, corrosive, environmental hazard, irritant, toxic, health hazard.	2
К2		the use of various irrigation fittings and tubing diameters used in an system.	4 marks
Ā	Sub Criterion	Identify ONE irrigation fitting and ONE irrigation emitter.	Marks Part A
PARTA	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.	1
PARTB	Sub Criterion	Match FOUR irrigation fittings to their application.	Marks Part B
PA	Content	Refer to Part A	1
PARTC	Sub Criterion	Discuss why different tubing diameters are normally used in an irrigation system.	Marks Part C
PA	Content	Open ended criterion.	2
C1		oreventive measures required for maintaining a safe work environment to practice basic first aid.	6 marks
۵	Sub	Outline TWO preventive measures required for maintaining a safe work	Marks
PARTA	Criterion	environment in a horticultural enterprise.	Part A
PA	Content	Any TWO preventive measures.	2
1.8	Sub Criterion	Describe the use of TWO items that should be present in a First Aid box.	Marks Part B
PARTB	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.	2
	Sub Criterion	Explain ways of dealing with ONE given injury.	Marks Part C
PARTC	Content	 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. 	2

A1	Practice	work to successfully grow a full row of plants from seed to maturity.	10 marks
Ā	Sub Criterion	Form a straight ridge with a furrow on each side in soil using appropriate tools and PPEs.	Marks Part A
PARTA	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.	3
	Sub Criterion	Practice routine work that is required in a field or garden.	Marks Part B
PARTB	Content	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 THREE tasks from the above in which student demonstrates proper acquisition of skill.	3
	Sub Criterion	Successfully grow a tray of seedlings.	Marks Part C
PARTC	Content	 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. 	4

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)

КЗ	Describe	e the processes involved in different propagation techniques.	4 marks
PARTA	Sub Criterion	Mention the TWO types of germination.	Marks Part A
PA	Content	Types of germination: Epigeal, Hypogeal.	1
ТВ	Sub Criterion	Outline TWO conditions required for optimum propagation of plants.	Marks Part B
PARTB	Content	Conditions for optimum plant propagation: Sheltering, water availability (assuming water is of good quality), temperature, humidity, free from pathogens and pests, suitable growing medium.	1
J.C	Sub Criterion	Describe TWO propagation techniques used for different plants.	Marks Part C
PART	Content	Propagation of plants: Seeding, stem cutting, stem tuber cutting, rhizome cutting, grafting, layering, runners, bulb, leaf.	2
К4	Describe	e the processes involved in different propagation techniques.	4 marks
TA	Sub Criterion	List TWO types of media used for plant propagation and growth.	Marks Part A
PARTA	Content	Media: peat, compost, coconut coir, soil, expanded clay, rockwool®, vermiculite, perlite, horticultural sand.	1
ITB	Sub Criterion	State suitable growth media for TWO different applications, applied to a specific example, in horticulture.	Marks Part B
PART	Content	Applications: Open field production, Production of seedlings, Potting, Hydroponics.	1
PARTC	Sub Criterion	List ONE advantage and ONE disadvantage for TWO given growth media.	Marks Part C
PAF	Content	Advantages and disadvantages: Water drainage, Pathogen free, Pest free, Nutrient holding capacity.	2
К5	Describe	e processes and benefits of grafting plants.	4 marks
TA	Sub Criterion	List TWO tools and materials required to graft a plant.	Marks Part A
PARTA	Content	Tools and materials: grafting knife, pruning saw, grafting tape, grafting paint, grafting clips, secateurs, Healthy rootstock and scion, Sanitation equipment.	1
m	Sub Criterion	Mention TWO considerations required to graft a plant.	Marks Part B
PARTB	Content	Considerations: - suitable season for plant of choice - correct match of scion and root stock - suitable grafting technique for plant of choice	1
	Sub Criterion	Describe TWO benefits of grafted plants.	Marks Part C
PARTC	Content	Benefits of grafted plants: - more vigorous growth - can be replicated - known performance (clone) - used to produce plants that thrive in specific environmental conditions.	2

A2	Grow a n	umber of cuttings by following the correct procedures.	10 marks
4	Sub Criterion	Use the correct tools and procedure to take viable cuttings.	Marks Part A
PARTA	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.	3
	Sub Criterion	Use the correct procedure to plant a number of cuttings.	Marks Part B
PARTB	Content	 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. 	3
	Sub Criterion	Successfully grow a number of cuttings.	Marks Part C
PARTC	Content	 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%. 	4



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

CONTROLLED ASSESMENT CRITERIA

NB: All of Topic 3 assessment criteria (K6, C2 and A3) will be assessed through a centrally provided controlled task. Information about this task will be provided during the scholastic year through the Education Assessment Unit (EAU). Schools do not need to produce assessment material for Topic 3.

К6	Outline fi	sh species and their habitats in relation to water parameters.	4 marks
1A	Sub Criterion	Match FOUR fish species to their respective habitat.	Marks Part A
PARTA	Content	Fish species: koi, goldfish, African cichlids, angel fish, mollies, guppies, tetras, clown fish, sea bream.	1
TB	Sub Criterion	List TWO water parameters that should be monitored to keep a healthy fish tank.	Marks Part B
PARTB	Content	Water parameters: ammonia, nitrites, nitrates, pH, hardness, phosphates, salinity.	1
7 C	Sub Criterion	Outline TWO fish habitats in relation to water parameters.	Marks Part C
PARTC	Content	Fish habitats: cold fresh water, tropical planted fresh water, tropical stone-scape fresh water, brackish, marine Mediterranean, marine tropical.	2
C2	Discuss	the importance of routine work according to aquarium size and décor.	6 marks
7 A	Sub Criterion	Justify the size of a given aquarium for ONE given fish species.	Marks Part A
PARTA	Content	Justification based on TWO points from: Size or fish and/or Aggression of fish species and/or Fish morphology and/or Species swimming/schooling pattern.	2
ГВ	Sub Criterion	Explain TWO benefits of water change of a fish tank.	Marks Part B
PARTB	Content	Benefits: reduction of pollutants, replenish trace minerals, control water clarity, removal of debris.	2
37.C	Sub Criterion	Discuss the importance of ONE aquarium décor item in relation to fish health of a given species.	Marks Part C
PART	Content	Décor items: Substrate, Rocks, Plants, Caves.	2
А3	Conduct	routine aquarist tasks.	10 marks
⋖	Sub Criterion	Give the right quantity of the right feed to fish in a running fish tank.	Marks Part A
PARTA	Content	 Selection of correct feed for given fish tank. Correct amount of fish feed. Proper feeding technique. 	3
ТВ	Sub Criterion	Record water parameters for a given fish tank.	Marks Part B
PAR	Content	Water parameters: Chlorine, Nitrates, Nitrites, pH, Water hardness, Temperature.	3
	Sub Criterion	Conduct a water change for a running fish tank.	Marks Part C
PARTC	Content	Marking is to be awarded uniformly per acquisition of skill: Remove a suitable amount of water using appropriate tools. Measure and dose the correct water additive. Top-up water to appropriate level. After teacher has switched back on electrical items, check that all components and décor are in the appropriate condition.	4

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)

K	7	Outline a	ccommodation and diets for different mammalian pets.	4 marks
į	PAKI A	Sub Criterion	List TWO common mammalian pets kept in Malta.	Marks Part A
à	<u>7</u>	Content	Mammalian pets: dogs, cats, rabbits, horses, guinea pigs, hamsters	1
C H	Z R	Sub Criterion	Identify TWO types of accommodation for common mammalian pets in Malta.	Marks Part B
i	PARI	Content	Accommodations: kennels, dog/cat transport cage, rodent cages, hutches, stables.	1
(!	သ ၃	Sub Criterion	Outline a diet for a mammalian pet through ONE life stage.	Marks Part C
i	TAKI	Content	Life stages: new-born, weaner, junior, adult, senior.	2
K	8	Outline a	ccommodation and diets for different avian pets.	4 marks
H	PARI A	Sub Criterion	List TWO common avian pets kept in Malta.	Marks Part A
à	Ţ	Content	Avian pets: parakeets and parrots, doves and pigeons, finches and true finches, fancy poultry and game, birds of prey.	1
() 	PAKI B	Sub Criterion	Identify TWO types of accommodation for common avian pets in Malta.	Marks Part B
ď	Ž.	Content	Accommodations: bird cages, parrot/ parakeet cages, aviaries, coops, dove/pigeon pens and lofts.	1
() 	האארו ה	Sub Criterion	Select the appropriate feed for FOUR given avian pets.	Marks Part C
Č	₹ 1	Content	Open ended criterion.	2
С	3	Discuss	criteria to be considered in order to maintain ideal pet health.	6 marks
į	/ A	Sub Criterion	Indicate the ideal environmental conditions required to keep a given mammalian pet and a given avian pet.	Marks Part A
	PARIA	Content	Environmental conditions: Length of day; Temperature; No draft; No stress from other animals.	2
1	PARI B	Sub Criterion	Describe factors that determine the number of a given pet that should be kept in a given cage/housing.	Marks Part B
	Ą Ą	Content	Description to be based upon the points: Size of pet; Natural behaviour of pet.	2
(ပ	Sub	Discuss ONE criterion that should be considered when designing a record-	Marks
	PARI C	Criterion Content	Records: ID(Name), age and breed; Feeds given; Vaccines administered; Dates for entries.	Part C 2
_				



A4	Conduct	routine tasks to keep mammalian pets.	10 marks
_	Sub Criterion	Clean the cage/housing of a given mammalian pet.	Marks Part A
PARTA	Content	Marking is to be awarded uniformly per acquisition of skill: - Cleaning of walls and/or floor and/or wire appropriately. - Cleaning of feeders appropriately. - Cleaning and replenishment of drinkers appropriately.	3
m	Sub Criterion	Give the right quantity of feed to a given mammalian pet according to the given life stage.	Marks Part B
PARTB	Content	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.	3
	Sub Criterion	Use the correct procedure for handling a given mammalian pet.	Marks Part C
PARTC	Content	 Marking is to be awarded uniformly per acquisition of skill: Safe and comfortable handling for pet where animal is neither harmed nor stressed unnecessarily. NB: award 1 mark if student requires assistance from classmate; award 2 marks if student requires no assistance. Safe and comfortable handling for candidate. NB: award 1 mark if student handles animal but with limited confidence; award 2 marks if student shows exemplary skill in handling given pet. 	4

A5	Conduct	routine tasks to keep avian pets.	10 marks
	Sub Criterion	Clean the cage/housing of a given avian pet.	Marks Part A
PARTA	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. 	3
	Sub Criterion	Give the right quantity of feed to a given avian pet according to the given life stage.	Marks Part B
PARTB	Content	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.	3
U	Sub Criterion	Use the correct procedure for installing a nesting box. (4 marks)	Marks Part C
PART	Content	 Correct nest box according to bird species Correct positioning of box and secure installation Provision of nesting material. 	4



YEAR 10 ASSESMENT CRITERIA















Topic 5: Gardening and landscaping.

Topic 6: Setting up an aquarium.

Topic 7: Petcare (controlled).

Topic 8: Introductory Apiculture.

> Topic 9: **Poultry** farming.





Topic 5: Gardening and landscaping. (27 marks) Identify sustainable garden types suitable for the Mediterranean climate and 2 **K9** marks corresponding plants. List TWO common sustainable garden types suitable for the Mediterranean Sub Marks Criterion Part A climate. PART Common sustainable garden types for the Mediterranean climate: rock, roof, wall, Content orchard, xeriscape, herb, Maltese indigenous. Marks Sub Name TWO plants suitable for a given garden type. Θ Criterion Part B PART Content Refer to Part A K10 Identify the importance of soil nutrients and organic matter. marks Marks Sub List ONE types of fertiliser and ONE macronutrient. Criterion Part A PART Fertilisers: Manure, slow release, organic, soluble. Content 1 Macronutrients: N, P, K, Ca, Mg, S. Sub Marks В State **TWO** benefits of organic matter in soil. Criterion Part B PART Benefits of organic matter in the soil bed: improves water holding capacity; Content improves soil aggregation; increases microbial activity; reduces soil erosion. 6 **C4** Complete a sketch of a given garden site with landscaping elements. marks Illustrate a given sketch of a garden site with plants and other items for a given Marks Part A Criterion garden type. V PART, Landscaping elements: Plants: trees and shrubs and seasonals 3 Content Other elements: Ponds and/or water features and/or planters and/or benches and/or gazebos and/or fences etc. Marks Sub Sketch an irrigation system according to given specifications. В Criterion Part B PART Simple sketch/line diagram with labelling of irrigation fittings super imposed on Content 3 copy of garden sketch. 8 Α6 Conduct tasks pertaining to landscaping. marks Marks Transplant a number of plants in a garden area according to a given site. T Criterion Part A PART, Content Open ended criterion. 3 Practice techniques for raising soil beds and creating ridges ('konka' + 'gefun') Marks Sub В Criterion around the plants transplanted in your garden area. Part B PART Content Open ended criterion. Marks Lay an irrigation system for your garden area as per given plan. S Criterion Part C PART Content Open ended criterion. 3 9 Α7 Practice routine work that is important for garden upkeep. marks Sub Marks V Maintain a given garden area over a period of time under supervision. PART, Part A Criterion Content NB. Garden area MUST be maintained for a minimum period of SIX weeks. 6 Marks Sub Conduct a given pruning task under supervision. Θ Criterion Part B PART Open ended criterion. Content 3



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

K11	List equ	ipment and materials that are commonly utilised in an aquarium.	2	
			marks	
PARTA	Sub Criterior	List TWO different pieces of life support/habitat equipment used in an aquarium.	Marks Part A	
PAF	Content	Equipment: Internal filter, external filter, air pump, water pump/power head, heater, lighting, chiller.	1	
PARTB	Sub Criterior	List TWO different décor items used in an aquarium.	Marks Part B	
PAF	Content	Décor items: Rocks, gravel, aquarium soil, sand, driftwood, synthetic plants, live plants.	1	
K12	K12 Identify styles, tools and materials relevant to aquascaping.			
PARTA	Sub Criterion	Name TWO aquascaping styles.	Marks Part A	
A	Content	Aquascaping styles: jungle, biotype, iwagumi, Dutch, Taiwanese, nature.	1	
m	Sub Criterion	List ONE aquarium maintenance tools/supplies and ONE aquascaping tools/supplies.	Marks Part B	
PARTB	Content	Maintenance tools/supplies: Gravel cleaner, syphon, test strips/kit, net, dechlorinator solution, glass cleaner.	1	
	Content	Aquascaping tools: Scissors, tweezers, substrate flattener, algae scraper, fertiliser solution/tabs, glue.	' 	
A8	Undertak	e tasks leading to a healthy fish tank that is visually pleasing.	8 marks	
٩	Sub Criterion	Set-up an aquarium with the necessary equipment and décor.	Marks Part A	
PARTA		Décor: Minimum 2 items		
A'	Content	Equipment must have a means of: Filtration, water circulation, temperature control, lighting, measuring temperature.	3	
TB	Sub Criterion	Prepare an aquarium to make it suitable to host the given biota.	Marks Part B	
PAR	Content	Important tasks: Filling with water, inoculation, water testing, acclimation, introduction of given biota.	2	
	Sub Criterion	Maintain an aquarium for a period.	Marks Part C	
PARTC		Important tasks: Feeding, monitoring of equipment, monitoring of biota, water testing, water changes, cleaning filtration system, trimming of plants, tidying/changing place of décor.		
PA	Content	NB: Same tank per student is to be used for assessment purposes. A minimum of THREE entries are required for assessment of this task. Entries MUST 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.	3	



Topic 7: Petcare (21 marks)

CONTROLLED ASSESMENT CRITERIA

NB: All of Topic 7 assessment criteria (K13, K14, K15, A9 and A10) will be assessed through a centrally provided controlled task. Information about this task will be provided during the scholastic year through the Education Assessment Unit (EAU). Schools do not need to produce assessment material for Topic 7.

K13	Recite tools and coat types pertaining to animal grooming.		
PARTA	Sub Criterion	Name TWO basic tools used in animal grooming.	Marks Part A
PA	Content	Basic tools used in animal grooming: clippers, brushes, furminators, scissors, nail trimmers.	1
RTB	Sub Criterion	List TWO animal coat types.	Marks Part B
PART	Content	Different coat types: hair, fur, wool, topcoat, under coat.	1

K14	Recall PP	Es and tools used for veterinary nursing and animal grooming.	2 marks
PARTA	Sub Criterion	Name TWO PPEs utilised in animal grooming and veterinary nursing.	Marks Part A
PA	Content	PPEs: Surgical mask, nitrile/latex disposable gloves, scrubs, apron, safety glasses, coverall.	1
<i>TB</i>	Sub Criterion	Name TWO tools/equipment utilised in veterinary nursing.	Marks Part B
PART	Content	Equipment: Stethoscope, rectal thermometer, scissors, forceps, pen torch, veterinary table.	1

K15	Recite fac	cts relevant to animal diseases and conditions.	4 marks
	Sub	List ONE common pet health condition OR ONE common pet parasite OR ONE	Marks
.₹	Criterion	common pet disease and how to treat it.	Part A
PART	Content	Conditions: Dermatitis, Buck teeth, Sore hocks, Arthritis. Parasites: Intestinal worms, Fleas, Mange, Ear mites. Diseases: Parvo virus, Ear infections, Kidney disease, Cat's flu, Diabetes, Viral haemorrhagic disease, Coccidiosis.	2
PARTB	Sub Criterion	List the TWO most important reasons why one should vaccinate an animal.	Marks Part B
	Content	Reasons: prevention of disease; controlling disease transmission.	2



AS	Record re	Record results of an animal health check.		
RTA	Sub Criterion	Conduct a health check for a given animal using basic veterinary nursing equipment.	Marks Part A	
PART	Content	Health checklist: tail, skin, limbs, coat, eyes, nose, ears, paws, teeth.	2	
RTB		Record the results of an animal health checklist to assess overall health status of a given animal.	Marks Part B	
PART	Content	Records: To be entered in a given health check card with all relevant information.	2	

A10	Assist yo	ur teacher during an animal grooming activity.	9 marks
PARTA	Sub Criterion	Select the correct tools the teacher asks you to prepare.	Marks Part A
PA	Content	Open ended criterion.	1
TB	Sub Criterion	Assist in the handling and grooming task following instructions given by your teacher.	Marks Part B
PART	Content	NB: Task to be done in pairs to assist teacher/farmer/technician under continuous supervision on a mammalian pet. Both students to actively assist during whole grooming task.	6
3TC	Sub Criterion	Maintain grooming tools appropriately following instructions.	Marks Part C
PART	Content	Maintenance: Clean and sanitise using appropriate suitable methods and materials.	2



Topic 8: Introductory Apiculture. (18 marks)

1/40	ldom#f-+1		3
K16	_	he contents of a beehive.	marks
7.A	Sub Criterion	List TWO apicultural products.	Marks Part A
PARTA	Content	Apicultural products: Honey, wax, pollen, bee bread, propolis, royal jelly, bee colonies.	1
PARTB	Sub Criterion	Name TWO roles of a worker bee.	Marks Part B
7	Content	Roles: Nurse bees, foragers, guards, builders, undertakers, cleaners.	1
PARTC	Sub Criterion	Identify TWO different honeybee castes.	Marks Part C
PAI	Content	Different bees: Queen, worker, drone.	1
K17	Identify a	picultural tools and PPEs.	3 marks
٨	Sub Criterion	Match FOUR apicultural tools or equipment to their use.	Marks Part A
PARTA	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.	1
PARTB	Sub Criterion	Name TWO PPEs used whilst working in an apiary.	Marks Part B
PA	Content	PPEs: Bee suit, bee jacket, bee veil, beekeeper's gloves, boots, powder free nitrile gloves.	1
PARTC	Sub Criterion	Identify TWO parts of a beehive.	Marks Part C
PA	Content	Parts: Bottom board, Brood box, super box, brood frame, super frame, queen excluder, inner cover, feeder, top cover.	1
A11	Practice I	basic apicultural tasks.	12 marks
8TA	Sub Criterion	Wear the appropriate apicultural PPEs successfully as part of your preparation to access the apiary.	Marks Part A
PART	Content	Open ended.	2
PARTB	Sub Criterion	Set-up a beehive correctly to be able to host a bee colony.	Marks Part B
PAF	Content	Open ended.	2
PARTC	Sub Criterion	Light-up a bee smoker safely.	Marks Part C
PAF	Content	Open ended.	2
PARTD	Sub Criterion	Follow instructions to conduct a beehive inspection under supervision.	Marks Part D
PAF	Content	Open ended.	6

Topic 9: Poultry farming. (22 marks)

K18	Identify p	Identify poultry feeders/drinkers and types.		
∢	Sub	Identify TWO pieces of equipment used in poultry farming.	Marks	
RT	Criterion		Part A	
PARTA	Content	Equipment: Poultry feeder, chick feeder, poultry drinker, nest boxes, incubator, brooder, cages, heat lamp.	1	
8 <i>T</i> B	Sub Criterion	List TWO types of poultry.	Marks Part B	
PART	Content	Types of poultry: Layers, Broilers, Fancy breeds, Turkeys, ducks, geese, Guinea fowl, Broiler quails.	1	

K19	Identify (different poultry feeds.	2 marks
PARTA	Sub Criterion	Name TWO feeds used from chick to adult in layer hen rearing.	Marks Part A
PA	Content	Layer feeds: Chick crumbs, layer crumbs, layer pellets, layer mesh.	1
PARTB	Sub Criterion	Name TWO feeds used from chick to slaughter in broiler rearing.	Marks Part B
PA	Content	Broiler feeds: Broiler starter, broiler grower, broiler finisher, corn (for corn fed).	1

K20		TWO missing steps and TWO missing precautions in the operation of manual	4 irks
		Steps:	
		 Collect fertilised eggs and store appropriately. Place eggs in incubator for setting. Plan and start the incubating period of 21 days. Maintain eggs in incubator by daily checking temperature (37.7°C) and humidity Candle on the 7th and 14th day. Discard any unfertilised or failed eggs. Remove the rotator on day 18th. Place chicks in brooder when hatched. 	/ .
		Precautions:	
	Content	 Ensure parent stock is healthy. Ensure good hen to rooster ratio. Collect clean and non-deformed eggs. Set eggs for incubation in a cool dark place. Eggs to be placed in setter at the correct orientation. Setter to be allowed to rotate without heating before incubation. Calibrate incubator to ensure ideal temperature. Incubator to be placed in zone with constant temperature. Incubator should not be opened unless necessary. Incubator should never run dry. Rotator to be removed before hatching phase starts. When hatching starts, incubator should not be opened until it is time to transfer brooder (days 22-23). 	r to



C5	Explain b farm.	riefly why any TWO bio-security measures are conducted in the running of a	4 marks
	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.	

C6	Log all activities involved in the production of chicks to pullet stage.			
	Content	 Dated entries Including all observations To document both positive and negative outcomes of the process. 		

A12	Practice t	asks involved in the running of layer hens.	6 marks
PARTA	Sub Criterion	Collect eggs and store appropriately.	Marks Part A
PAI	Content	In a clean plastic container; Stored in a cool dry place.	2
3TB	Sub Criterion	Clean and disinfect chicken coop including the drinker/feeder system.	Marks Part B
PART	Content	Make use of manure clamp; Drinkers and feeders to be cleaned and disinfected at least every fortnight.	2
3TC	Sub Criterion	Replenish feeders and drinkers appropriately.	Marks Part C
PART	Content	Open ended criterion.	2



YEAR 11 ASSESMENT CRITERIA

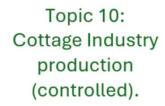
















Topic 11: Crop Production.

Topic 12: Rabbit Farming



Topic 10: Cottage Industry Production. (20 marks)

CONTROLLED ASSESMENT CRITERIA

NB: All of Topic 10 assessment criteria (K21, K22, C7 and A13) will be assessed through a centrally provided controlled task. Information about this task will be provided during the scholastic year through the Education Assessment Unit (EAU). Schools do not need to produce assessment material for Topic 10.

K21	Identify cottage industry products and preservation methods.		
57	Sub Criterion	List TWO cottage industry products	
PARTA	Content	Cottage industry products: Jams, chutneys, dried produce, preserves in sugar, preserves in oil, preserves in vinegar, preserves in brine/salt, honey, oil, cheese, wines, liquors, cosmetics. NB: students are expected to list specific items e.g. strawberry jam.	1
<i>TB</i>	Sub Criterion	Match FOUR methods of preservation to cottage industry products.	Marks Part B
PART	Content Methods of preservation: Salting, drying, fermentation, preserving in vinegar, preserving in oil, preserving in brine, preserving in sugar, candying, smoking.		1

K22	Recall the factors that contribute to costs and labels for a cottage industry product.			
⋖	Sub	List TWO items that make part of the cost to produce a cottage industry	Marks	
RT	Criterion	product.	Part A	
PARTA	Content	Expenses: Production costs, purchase of ingredients, containers, jars, bottles, packets, labelling, storage.	1	
T B	Sub Criterion	Name TWO items that need to be included on a cottage industry product label.	Marks Part B	
PART	Content	Items to be included on label: Brand, name of product, volume/weight, ingredients, expiry date, lot number.	1	

	C 7	Estimate costings related to cottage industry products.		
		Sub Criterion	Estimate the costs involved in a given cottage industry product.	Marks Part A
	PARTA	Content	Estimate of costs include: costs involving production of ingredients; purchase of ingredients that cannot be produced in house (e.g. vinegar and sugar); containers/Jars/packets/bottles; labels; number of hours (man hours); water/electricity/cleaning materials; equipment costs.	2
	PARTB	Sub Criterion	Determine a price for a given cottage industry product.	Marks Part B
		Content	Open ended criterion.	2



A13	Produce a range of cottage industry products under supervision.			
۲ <u>-</u>	Sub	Prepare ingredients and containers for the preparation of a range cottage	Marks	
R	Criterion	industry products under supervision.	Part A	
PARTA	Content	Open ended criterion.	2	
В	Sub	Process and transfer to suitable packaging a range of cottage industry products	Marks	
PART	Criterion	under supervision.	Part B	
PA	Content	Open ended criterion.	8	
O	Sub	Label a range of cottage industry products under supervision.	Marks	
PART	Criterion	Labet a range of cottage industry products diluci supervision.	Part C	
PA	Content	Open ended criterion.	2	

NB:

- Students are required to produce a minimum of **TWO** different products that require different preservation/preparation methods. Students are also required to clean and disinfect the working station before labelling.



Topic 11: Crop Production. (31 marks)

K23	Recall dif	Recall different crops and how to grow them.		
PARTA	Sub Criterion	Match FOUR crop types with crops.	Marks Part A	
PAI	Content	Crop types: Tubers, tree fruits, seasonal fruits, leafy, cereals, stem.	1	
RT B	Sub Criterion	Match FOUR production methods with crops.	Marks Part B	
PART	Content	Production methods: Open field, greenhouse in soil, hydroponic, aeroponic, aquaponics.	1	
RT C	Sub Criterion	Match FOUR propagation techniques with crops.	Marks Part C	
PART	Content	Propagation techniques: Seeding, cutting, bulb, runners, layering, rhizome cutting, grafting, tubers.	1	

C8	Make a crop plan for the production of a cottage industry product.			
PARTA	Sub Criterion	Establish a sowing and harvesting calendar required for the production of a range of cottage industry products.	Marks Part A	
PA	Content	NB: Minimum number of different crops given = 4	2	
PART B	Sub Criterion	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. List of quantities may include: Seeds, growth medium, seed trays, fertiliser,	Marks Part B	
Α,	Content	irrigation fittings, irrigation tubing, seedlings etc.	2 Marks	
PARTC	Sub Criterion	Sub Estimate the costings involved in the production of a given number/weight of crops required for the production of a cottage industry product.		
PA	Content	NB: Pricelist to be supplied by teacher.		
Produce a range of crops that will be used for the preparation of cottage industry products.			18	
T.A)•	marks	
3.T.A	Sub Criterion	Sow/transplant a range of crops that will be used for the preparation of cottage	Marks Part A	
PARTA	Sub	Sow/transplant a range of crops that will be used for the preparation of cottage	Marks	
	Sub Criterion	Sow/transplant a range of crops that will be used for the preparation of cottage industry products. Tasks: Field preparation, Setup of Irrigation system, Crop Selection, Seed tray	Marks Part A	
PARTB PARTA	Sub Criterion Content	Sow/transplant a range of crops that will be used for the preparation of cottage industry products. Tasks: Field preparation, Setup of Irrigation system, Crop Selection, Seed tray preparation, Maintaining Seed Tray, Transplanting to field/greenhouse. Maintain a range of crops until maturity that will be used for the preparation of	Marks Part A 8 Marks	
PARTB	Sub Criterion Content Sub Criterion	Sow/transplant a range of crops that will be used for the preparation of cottage industry products. Tasks: Field preparation, Setup of Irrigation system, Crop Selection, Seed tray preparation, Maintaining Seed Tray, Transplanting to field/greenhouse. Maintain a range of crops until maturity that will be used for the preparation of cottage industry products. Tasks: irrigation of product, inter-row cultivation, de-weeding, observing for pests and diseases, observing for deficiencies and disorders. (minimum 3	Marks Part A 8 Marks Part B	
	Sub Criterion Content Sub Criterion Content	Sow/transplant a range of crops that will be used for the preparation of cottage industry products. Tasks: Field preparation, Setup of Irrigation system, Crop Selection, Seed tray preparation, Maintaining Seed Tray, Transplanting to field/greenhouse. Maintain a range of crops until maturity that will be used for the preparation of cottage industry products. Tasks: irrigation of product, inter-row cultivation, de-weeding, observing for pests and diseases, observing for deficiencies and disorders. (minimum 3 crops)	Marks Part A 8 Marks Part B 6 Marks	

A15 Apply fertiliser following instructions under supervision.

NB: All necessary PPEs and safety considerations during this application are mandatory. For assessment purposes, student must be given a set of instructions to prepare and apply fertiliser as well as clean any application apparatus after use. Environmental protection laws will be adhered to.



marks

Topic 12: Rabbit farming. (29 marks)

K24	Identify rabbit feeders/drinkers and types.					
PARTA	Sub Criterion	Identify TWO pieces of equipment used in rabbit farming.	marks Marks Part A			
PAF	Content	Equipment: Feeder, nipple drinker, bottle drinker, cages, nest boxes.	1			
ГВ	Sub Criterion	List TWO common rabbit breeds.	Marks Part B			
PART B	Content	Example: New Zealand White, Californian, Rex, Netherland Dwarf, Lop, Lion head, Flemish giant.	1			
K25	Identify different rabbit feeds.					
R7	Sub Criterion	Name TWO feeds used in commercial rabbit rearing.	marks Marks Part A			
PART A	Content	Commercial feeds: Weaner, grower, maintenance, doe, medicated.	1			
PART B	Sub Criterion	Name TWO nutrients found in a commercial rabbit feed.	Marks Part B			
PA	Content	Nutrients: Protein, fats, carbohydrates, minerals, vitamins.	1			
K26	Recite as	pects of rabbit slaughtering.	3 marks			
PARTA	Sub Criterion	List TWO methods of rabbit slaughtering				
PA	Content	Different methods of rabbit slaughtering: stunning; dislocation; halal; striking.	1			
<i>TB</i>	Sub Criterion	List TWO methods of presenting raphit meat to the consumer				
PARTB	Content	Presentation methods of rabbit meat: whole carcass; parts; deboned; grounding; product creation (e.g. sausages, burgers, etc).				
PART C	Sub Criterion	List TWO animal welfare aspects to consider when slaughtering animals.				
PAI	Content	Animal welfare aspects: Remove/Prevent avoidable Excitement, pain and				
C9	Prepare a b	preeding programme calendar for a commercial rabbitry.	4 marks			
			Marks			
		Calendar parameters: Intensity, date required for slaughter, date of breeding, date preparation of nesting box, date of weaning, date of changing feed.	of			
A16	Practice t	tasks involved in the running of a rabbitry.	9 marks			
PARTA	Sub Criterion	Remove any debris stuck to the wire and the accessories in cages.	Marks Part A			
PAI	Content	Open ended criterion.	3			
PARTB	Sub Criterion	Clean and disinfect the rabbitry including the drinker/feeder system.	Marks Part B			
PAF	Content	Make use of manure clamp; Drinkers and feeders to be cleaned and disinfected at least every fortnight.	4			
PARTC	Sub Criterion	Replenish feeders and drinkers appropriately.	Marks Part C			
PA	Content	Open ended criterion.	2			
	•					

A17	Conduct tasks relevant to producing rabbits under supervision.			
1A	Sub Criterion	Examine a rabbit to determine its sex and health condition.	Marks Part A	
PARTA	Content	Open ended.	2	
STB	Sub Criterion	Select a suitable breeding pair of rabbits.	Marks Part B	
PART	Content	Open ended.	1	
RTC	Sub Criterion	Follow instructions to carry out tasks required for a rabbit breeding programme.	Marks Part C	
PART	Content	Open ended.	6	



TEACHERS' PACK SUPPLEMENT





RUBRIC FOR ASSESSMENT CRITERIA

Year 9

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

K-1	Identify ONE tool and ONE piece of personal protective equipment that are used in an agribusiness enterprise.				
	□ 0.5	marks	□ 1 mark		
	Identified either 1 tool or	1 PPE	Identified 1 tool and 1 PPE		
K-1	Match FOUR pieces of pe	rsonal protective equipme	nt 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 a	and Safety signs used in ag	ricultural 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-1 to	tal:				
K-2	Identify ONE irrigation fitt	ing and ONE irrigation emit	ter.		
	□ 0.5	marks	□ 1 mark		
	Identified either 1 irrigation emitter.	on fitting or 1 irrigation	Identified 1 irrigation fitting and 1 irrigation emitter.		
K-2	Match FOUR irrigation fitt	ings 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 tub	ing diameters are normally	used in an irrigation syste	m.	
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks	
	Makes very basic reference to either flow rate or pressure differences.	Makes very basic reference to both flow rate and pressure differences.	Mentions either: - increased main line diameter results in better flow rate. or - Irrigation lines with emitters are then reduced in diameter to increase pressure at point.	Mentions both: - increased main line diameter results in better flow rate Irrigation lines with emitters are then reduced in diameter to increase pressure at point.	
K-2 to	K-2 total:				



C-1	Outline TWO preventive measures required for maintaining a safe work environment 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 that 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 w	ith ONE 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.	
C-1 to	tal:				
A-1	Form a straight ridge with	a furrow on each side in so	oil using appropriate tools a	and PPEs.	
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks	
	Forms a non-uniform ridge. Forms furrows on each side of the ridge but are non-uniform. Uses the appropriate tools. NB: if PPEs are not used no marks are to be awarded.	Forms a ridge that is not straight. Forms furrows on each side of the ridge but are non-uniform. Uses the appropriate tools. NB: if PPEs are not used no marks are to be awarded.	Forms a neat and straight ridge. Forms furrows on each side of the ridge but are non-uniform. Uses the appropriate tools. NB: if PPEs are not used no marks are to be awarded.	Forms a neat and straight ridge. Forms neat and straight furrows on each side of the ridge. Uses the appropriate tools. NB: if PPEs are not used no marks are to be awarded.	



A-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 raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or repotting followed by proper watering.	Student shows mastery of skill in 1 out of the below skills. Skills: De-weeding and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or repotting followed by proper watering.	Student shows mastery of skill in 2 out of the below skills. Skills: De-weeding and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or repotting followed by proper watering.	Student shows mastery of skill in a minimum of 3 out of the below skills. Skills: De-weeding and/or raking and/or removal of clippings and/or transplanting seedlings followed by proper watering and/or repotting followed by proper watering.		
A-1	Successfully grow a tray of	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%.		
A-1 to	A-1 total:					



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

K-3	Mention the TWO types of germination.					
	□ 0.5	marks	□1:	□ 1 mark		
	Mentioned 1 type of germination.		Mentioned 2 types of germination.			
K-3	Outline TWO conditions r	equired for optimum propa	gation 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-3 total:						
K-4	List TWO types of media ι	used for plant propagation	and growth.			
	□ 0.5	marks	□ 1 mark			
	Lists 1 type of media		Lists 2 types of media			
K-4	State suitable growth med horticulture.	dia for TWO different applic	cations, applied to a specifi	c example, in		
	□ 0.5	marks	□ 1 mark			
	States 1 suitable growth r	medium.	States 2 suitable growth media.			
K-4	List ONE advantage and C	ONE disadvantage for TWO	given growth media.			
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks		
	Listed either 1 advantage or 1 disadvantage for 1 growth medium.	Listed 1 advantage and 1 disadvantage for 1 growth medium. OR Listed either 1 advantage or 1 disadvantage for 2 growth media.	Listed 1 advantage and 1 disadvantage for 1 growth medium. AND Listed either 1 advantage or 1 disadvantage for 1 growth medium.	Listed 1 advantage and 1 disadvantage for 2 growth media.		
K-4 to	K-4 total:					



K-5	List TWO tools and materials required to graft a plant.							
	□ 0.5	marks	□ 1 mark					
	Lists 1 tool.		Lists 2 tools.					
K-5	Mention TWO considerati	ons required to graft a plan	t.					
	□ 0.5	marks	□1:	mark				
	Mentions 1 consideration		Mentions 2 consideration	S.				
K-5	Describe TWO benefits of	grafted plants.						
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks				
	Describes very basically 1 benefit. Describes very basically 2 benefits.		Describes in detail 1 benefit.	Describes in detail 2 benefits.				
K-5 to	K-5 total:							
A-2	Use the correct tools and procedure to take viable cuttings.							
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks				
	Student conducts all tasks but required assistance for all tasks: Sanitization of tools,	Student conducts 1 task with zero assistance: Sanitization of tools,	Student conducts 2 tasks with zero assistance:	Student conducts all 3 tasks with zero assistance:				
	Proper utilisation of tools, Taking of correct cuttings from a healthy mother plant.	Proper utilisation of tools, Taking of correct cuttings from a healthy mother plant.	Sanitization of tools, Proper utilisation of tools, Taking of correct cuttings from a healthy mother plant.	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. 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-2	Use the correct procedure	e to plant a number of cutti	ngs.					
	□ 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. RB: 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 tasks: Fill container with media and cutting as required for specific plant. Regular watering as required for specific plant.	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.	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	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			
	However success rate less than 75% but not less than 50%. NB: if PPEs are not used no marks are to be awarded.	 Production of new plant via cutting with a success rate of not less than 75%. NB: if PPEs are not used no marks are to be awarded. 	 Production of new plant via cutting with a success rate of not less than 75%. NB: if PPEs are not used no marks are to be awarded. 	 Production of new plant via cutting with a success rate of not less than 75%. NB: if PPEs are not used no marks are to be awarded. 				
	A-2 total:							

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

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 parame	eters that should be monito	red to keep a healthy fish ta	nk.			
	□0	.5 marks	□1	mark			
	Lists 1 water paramete	r.	Lists 2 water parameters				
K-6	Outline TWO fish habit	ats in relation to water para	imeters.				
		1 mark	□21	narks			
	Outlined 1 fish habitat	correctly.	Outlined 2 fish habitats of	correctly.			
K-6 tot	al:						
C-2	Justify the size of a given aquarium for ONE given fish species.						
	□ 0.5 marks	□ 1mark	□ 1.5 marks	□ 2 marks			
	Limited justification based upon 1 out of the below points: Size or fish and/or Aggression of fish	imited justification pased upon 2 out of the pelow points: Size or fish and/or aggression of fish	Detailed justification based upon 1 out of the below points: Size or fish and/or Aggression of fish	Detailed justification based upon 2 out of the below points: Size or fish and/or Aggression of fish			
	species and/or Fish morphology and/or Species swimming/schooling	species and/or Fish morphology and/or Species swimming/schooling pattern.	species and/or Fish morphology and/or Species swimming/schooling pattern./schooling	species and/or Fish morphology and/or Species swimming/schooling pattern.			
	pattern.		pattern.	pattern.			
C-2	Explain TWO benefits o	of water change of a fish tan	ık.	1			
	□ 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	e of ONE aquarium décor it	em in relation to fish health	of a given species.			
	□ 0.5 marks	□ 1mark	□ 1.5 marks	□ 2 marks			
	Discusses in limited detail taking into consideration either th fish's wellbeing or 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 or natural habitat.	Discusses in detail taking into consideration the fish's wellbeing and natural habitat.			
C-2 tot	C-2 total:						



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:	Student conducts 2 tasks with zero assistance:	Student conducts all 3 tasks with zero assistance:		
	Selection of correct feed for given fish tank.	Selection of correct feed for given fish tank.	Selection of correct feed for given fish tank.	Selection of correct feed for given fish tank.		
	Correct amount of fish feed.	Correct amount of fish feed.	Correct amount of fish feed.	Correct amount of fish feed.		
	Proper feeding technique.	Proper feeding technique.	Proper feeding technique.	Proper feeding technique.		
A-3	Record water parameters	for a given fish tank.				
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks		
	Student measures and 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 and 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 and 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		
	Student performs skilfully all 1 out of the 4 tasks below with zero assistance:	Student performs skilfully all 2 out of the 4 tasks below with zero assistance:	Student performs skilfully all 3 out of the 4 tasks below with zero assistance:	Student 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 additive.	Measure and dose the correct water additive.	Measure and dose the correct water additive.	Measure and dose the correct water 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 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.	After teacher has switched back on electrical items, check that all components and décor are in the appropriate condition.		
Total A	\-3:					



Topic 4: Meet the basic needs of an avian and a mammalian pet. (34 marks) List TWO common mammalian pets kept in Malta. K-7 □ 0.5 marks □ 0.5 marks Lists 1 common mammalian pet. Lists 1 common mammalian pet. K-7 Identify TWO types of accommodation for common mammalian pets in Malta. \square 0.5 marks □ 0.5 marks Identifies 1 type of accommodation. Identifies 1 type of accommodation. K-7 Outline a diet for a mammalian pet through ONE life stage. \square 0.5 marks □ 1 mark ☐ 1.5 marks ☐ 2 marks Detailed discussion Detailed discussion Detailed discussion Detailed discussion where the below 2 out of where the below 3 out of where the below where the below 1 out of the 4 nutrients are the 4 nutrients are the 4 nutrients are nutrients are all included: Protein, included: Protein, included: Protein, included: Protein, Carbohydrates, Fibre, Carbohydrates, Fibre, Carbohydrates, Fibre, Carbohydrates, Fibre, Vitamins and minerals Vitamins and minerals Vitamins and minerals Vitamins and minerals NB: Where applicable. NB: Where applicable, NB: Where applicable. NB: Where applicable. eg. Cats and dogs, 1 e.g. Cats and dogs, 1 e.g. Cats and dogs, 1 e.g. Cats and dogs, 1 nutrient may be replaced nutrient may be replaced nutrient may be replaced nutrient may be replaced by pellet size. by pellet size. by pellet size. by pellet size. K-7 total: 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. 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 Selects 2 appropriate Selects 3 appropriate Selects 4 appropriate feed. feeds. feeds. feeds. K-8 total: 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 Answer includes Answer includes 1 of the Answer includes the 2 mentioning only 1 of the 2 mentioning only the 2 2 following points in following points in following points: detail: following points: detail: Length of day Length of day Length of day Length of day Temperature Temperature Temperature Temperature C-3 Describe factors that determine the number of a given pet that should be kept in a given cage/housing. ☐ 1.5 marks ☐ 2 marks ☐ 0.5 marks ☐ 1 mark Answer includes Answer includes Detailed description Detailed description mentioning only the of the mentioning only the 2 where the 1 of the 2 where the 2 points 2 points below: points below is included: points below: below are included: Size of pet Size of pet Size of pet Size of pet Natural behaviour Natural behaviour Natural behaviour Natural



of pet.

of pet.

of pet.

C-3	Discuss ONE criterion that should be considered when designing a record-keeping sheet for feeding and vaccination 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.				
C-3 to	C-3 total:							
A-4	Clean the cage/housing of a	given mammalian pet.						
	□ 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:	Student conducts 2 tasks with zero assistance:	Student conducts all 3 tasks with zero assistance:				
	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.	Cleaning of walls and/or floor and/or wire appropriately.				
	Cleaning of feeders appropriately.	Cleaning of feeders appropriately.	Cleaning of feeders appropriately.	Cleaning of feeders 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-4								
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks				
	Student conducts all tasks successfully but required assistance for all tasks: Select suitable food for	Student conducts 1 task with zero assistance: Select suitable food for given pet.	Student conducts 2 tasks with zero assistance: Select suitable food for given pet.	Student conducts all 3 tasks with zero assistance: Select suitable food for given pet.				
	given pet. Weigh/measure suitable amount of feed.	Weigh/measure suitable amount of feed.	Weigh/measure suitable amount of feed.	Weigh/measure suitable amount of feed.				
Loading reeder an		placing appropriately.	Loading feeder and placing appropriately.	Loading feeder and placing appropriately.				
A-4	Use the correct procedure f	or handling a given mammal	lian pet.					
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks				
	Student 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.	Student 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.	Student 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.	Student performs skilfully: Safe and comfortable handling for pet where animal is neither harmed nor stressed unnecessarily. Safe and comfortable in handling given pet.				
A-4 to	otal:							



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 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-5	Give the right quantity of fee	ed to a given avian pet accor	ding to the given 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-5	Use the correct procedure f	or installing a nesting box.				
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks		
	Student was able to perform only 1 of the below tasks: Selects the correct nest box according to bird species Positions the box correctly. Secure installation of the box.	but required moderate assistance in both below tasks: Elects the correct nest box according to bird species Elects the box according to bird species Elects the correct nest box according to bird species Elects		Student performs skilfully: Selects the correct nest box according to bird species Positions the box correctly. Secure installation of the box.		
A-5 to	otal:					



Year 10

Topic 5: Gardening and landscaping. (27 marks)

K-9	List TWO common sustainable garden types suitable for the Mediterranean climate.				
	□ 0.5	marks	□ 1 mark		
	Lists 1 common sustainable	le garden type.	Lists 2 common sustainab	le garden types.	
K-9	Name TWO plants suitable	for a given garden type.			
	□ 0.5	marks	□1:	mark	
·	Names ONE plant suitab	le for a given garden type.	Names TWO plants suital	ole for a given garden type.	
K-9 to	tal:				
K-10	List ONE type of fertiliser a	nd ONE macronutrient.			
	□ 0.5	marks	□1:	mark	
	Lists 1 type of fertiliser OR	1 macronutrient.	Lists 1 type of fertiliser and	1 macronutrient.	
K-10	State TWO benefits of orga	nic matter in soil.			
	□ 0.5	marks	□1:	mark	
	States 1 benefit.		States 2 benefits.		
K-10 t	otal:				
C-4	Illustrate a given sketch of	a garden site with plants and	other items for a given gard	en type.	
	□ 1 mark	□ 1.5 marks	□ 2.5 marks	□ 3 marks	
	Student required mild prompting to add both plants and other elements to given sketch. The presentation is not as neat and clear. The selection of different plants and other elements is with limited compatibility but suitable for given garden type.	Student independently adds both plants and other elements to given sketch. The presentation is not as neat and clear. The selection of different plants and other elements is with limited compatibility but suitable for given garden type.	Student independently adds both plants and other elements to given sketch. Either the presentation is neat and clear. The selection of different plants and other elements is with limited compatibility but suitable for given garden type. OR the presentation is not as neat and clear. The selection of different plants and other elements is compatible and suitable for given garden type.	Student independently adds both plants and other elements to given sketch. Presentation is neat and clear. The selection of different plants and other elements is compatible and suitable for given garden type.	
C-4	<u> </u>	n according to given specifica			
,	☐ 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.	

C-4 total:

A-6	A-6 Transplant a number of plants in a garden area according to a given site.					
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks		
plants with slight assistance: - in location as per given job sheet Using appropriate tools and technique.		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 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-6	Practice techniques for rais garden area.	sing soil beds and creating ri	dges ('konka') around the pla	ants transplanted in your		
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks		
	ridge around a given plant that has either a consistent trough or ridge. Work is done with Select suitable food for given pet. Weigh/measure suitable amount of feed. ridge around a g plant that has ei consistent troug ridge. Work is do		Student forms one round ridge around a given plant that has either a consistent trough or ridge. Work is done with minimal assistance.	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-6	Lay an irrigation system for	your garden area as per give	en plan.			
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 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.	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.	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.	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-6 to	tal:					
A-7	Maintain a given garden are	ea over a period of time unde	er supervision.			
	□ 1.5 marks	□ 3 marks	□ 4.5 marks	□ 6 marks		
	Student conducts a minimum of 3 tasks from the list below for 4 weeks (3 tasks per week) with greater assistance:	Student conducts a minimum of 3 tasks from the list below for 4 weeks (3 tasks per week) with minimal assistance:	Student conducts a minimum of 3 tasks from the list below for 4 weeks (3 tasks per week) with zero assistance:	Student conducts a minimum of 3 tasks from the list below for 6 weeks (3 tasks per week) with zero assistance:		
	 De-weeding Pruning Cleaning of garden and work area from plant material and other items Giving fertiliser Tilling the soil and e.g. forming ridges. 	 De-weeding Pruning Cleaning of garden and work area from plant material and other items Giving fertiliser Tilling the soil and e.g. forming ridges. 	- De-weeding - Pruning - Cleaning of garden and work area from plant material and other items - Giving fertiliser - Tilling the soil and e.g. forming ridges.	 De-weeding Pruning Cleaning of garden and work area from plant material and other items Giving fertiliser Tilling the soil and e.g. forming ridges. 		



A-7	Conduct a given pruning task under supervision.						
	□ 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 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 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 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-7 to	A-7 total:						



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	i.	Lists min. 2 pieces of equipment.				
K-11	List TWO different décor it	ems used in an aquarium.					
	□ 0.5	marks	□1:	mark			
	Lists 1 decor item.		Lists min. 2 decor items.				
K-11 tota	al:						
K-12	Name TWO aquascaping s	styles.					
	□ 0.5	marks	□1:	mark			
	Names 1 aquascaping sty	le.	Names min. 2 aquascapir	ng styles'			
K-12	List ONE aquarium mainte	enance tools/supplies and (ONE aquascaping tools/sup	plies.			
	□ 0.5	marks	□1:	mark			
	Lists min. 1 maintenance	tool/supplies OR	Lists min. 1 maintenance	tool/supplies AND			
	Lists min. 1 aquascaping t	ool.	Lists min. 1 aquascaping t	cool.			
K-12 tota	2 total:						
A-8	Set-up an aquarium with t	he necessary equipment ar	nd décor.				
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks			
	Student completes full	Student completes full	Student completes full	Student completes full			
	set-up with significant set-up with signific assistance AND assistance OR		set-up with minimal assistance OR minimal	set-up without any assistance or			
	significant prompting.	significant prompting.	prompting.	prompting.			
A-8	Prepare an aquarium to m	ake it suitable to host the g	iven biota.				
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks			
	Student performs tasks	Student performs tasks	Student performs tasks	Student performs tasks			
	with a high level of assistance.	with moderate assistance.	skilfully BUT requiring moderate assistance for	skilfully without any assistance.			
			1 task only.				
A-8	Maintain an aquarium for a	a period of time.					
	□ 0.5 marks	□ 1 mark	□ 2 marks	□ 3 marks			
	Student performs a min.	Student performs a min.	Student performs a min.	Student performs a min.			
	of 6 out of the 8 indicated tasks skilfully	of 6 out of the 8 indicated tasks skilfully	of 6 out of the 8 indicated tasks skilfully	of 6 out of the 8 indicated tasks skilfully			
	over a minimum period	over a minimum period	over a minimum period	over a minimum period			
	of 30 days. Slight assistance/prompting	of 30 days. At least 2 entries of record of work	of 30 days. Slight assistance/prompting	of 30 days. At least 3 entries of record of work			
	was required. At least 2	to be included.	was required. At least 3	to be included.			
	entries of record of work to be included.		entries of record of work to be included.				
A-8 total			to be metaded.				

Topic 7: Petcare. (21 marks)

K-13	Name TWO basic tools used in animal grooming.					
	□ 0.5	marks			□ 1 ı	mark
	Named 1 tool.			Named 2 tools.		
K-13	List TWO animal coat type	s.				
	□ 0.5	marks		□ 1 mark		
	Listed 1 animal coat type.			Listed 2 animal c	oat types	
K-13 to	tal:			,		
K-14	Name TWO PPEs utilised in	n animal	grooming and vete	rinary nursing.		
	□ 0.5	marks			□ 1 i	mark
	Names 1 PPE.			Names 2 PPEs.		
K-14	Name TWO tools utilised in veterinary nursing.					
	□ 0.5	marks			□ 1 ı	mark
	Names 1 tool/equipment.			Names 2 tools/ed	quipment	
K-14 to	total:					
K-15 List ONE common pet health condition, ONE common pet parasite and ONE common pet disease and how						
K-13	to treat them.	ttii Condi	tion, ONE commo		ONE COM	mion per disease and now
		mark				narks
	Student lists: 1 common p					et health condition OR 1
	common pet parasite OR 1	n pet disease.	common pet parasite OR 1 common pet disease AND how to treat it.			
K-15	List the TWO most important reasons why one should vaccinate an animal.					
		mark		Ct. do at lists both		narks
	Student lists either prever controlling disease transm		sease or	controlling disea		ion of disease and
	_					
K-11 to	tal:					
A-9	Conduct a health check fo	r a given	animal using basic	veterinary nursing	g equipme	ent.
	□ 0.5 marks		□ 1 mark	☐ 1.5 mark	(S	□ 2 marks
	Through significant	_	significant	Skilfully, with mir		Skilfully and
	assistance, checks 6		nce, checks 9	assistance, chec	ks 9	autonomously checks 9
	areas.	areas.		areas.		areas.
A-9	Record the results of an ar	nimal hea	Ith checklist to as:	sess overall health	status of	a given animal.
	□ 0.5 marks		□11	mark		☐ 2 marks
	60% of records entered co	rrectly.	All records entere	ed correctly with	All reco	rds entered correctly
			minimal assistan	ice.	without	assistance.
A-9 tota	al:		<u> </u>		l	
A-10	Select the correct tools the	e teacher	asks you to prepa	re.		
			E marka		□ 1 mc = :: -	
						□ 1 mark
	Half of the grooming tools	a tool:	Most grooming to			ming tools required for
	required for given groomin were selected without ass	istance.	given grooming to selected without	assistance.		ooming task were d without assistance.
					23.20.0	355.513.7150.



A-10	Assist in the handling and	dling and grooming task following instructions given by your teacher.				
	□ 2 marks	[□ 3 marks	□ 4 marks		□ 6 marks
	Mildly assists, and required prompting additionally to the instructions, the teacher or relevant staff member during a given grooming task on a given animal. This task is done in pairs having students showing scarce teamwork and collaboration to take turns in acting as the 'leading assistant'. Student restraint the animal upon being given instructions by the teacher. Grooming procedure to include on least 3 areas of the animal.	Actively assists, but required prompting additionally to the instructions, the teacher or relevant staff member during a given grooming task on a given animal This task is done in pairs having students showing teamwork and collaboration to take turns in acting as the 'leading assistant'. Student restraint the animal upon being given instructions by the teacher. Grooming procedure to include on least 3 areas of the animal.		Actively assists through instructions, hands-on, the teacher or relevant staff member during a given grooming task on a given animal This task is done in pairs having students showing teamwork and collaboration to take turns in acting as the 'leading assistant'. Student restraint the animal upon being given instructions by the teacher. Grooming procedure to include on least 3 areas of the animal.		Actively assists through instructions, hands-on, the teacher or relevant staff member during a given grooming task on a given animal This task is done in pairs having students showing teamwork and collaboration to take turns in acting as the 'leading assistant'. Student will be responsible for the restraint of the animal. Grooming procedure to include on least 3 areas of the animal.
A-10	Maintain grooming tools a	ppropriat	ely.			
	□ 0.5 marks		□ 1 r	mark		□ 2 marks
	Student, with minimal ass and prompting maintains a grooming tools appropriate before and after use.	given	Student, with mir maintains given g appropriately bef use.	rooming tools	maintai	, without any assistance, ns given grooming tools iately before and after
A-10 to	tal:					



Topic 8: Introductory Apiculture. (18 marks)

K-16	List TWO apicultural products.						
	□0	.5 marks			□ 1 mark		
	Lists 1 apid	ultural proc	luct.		Lists	2 apicultura	al products.
K-16	Name TWO roles of a wo	orker bee.					
	□0	.5 marks				□ 1 ma	rk
	Nam	ed 1 role.				Named 2 r	oles.
	Identify TWO different h	oneybee ca	stes.				
K-16	□0	.5 marks				□ 1ma	rk
	Identif	ied 1 caste.			ı	dentified 2	castes.
K-16 to	tal:						
	Match FOUR apicultura	l tools or eq	uipment to th	eir us	e.		
K-17	□ 0.25 marks	□ 0.5	5 marks		□ 0.75 marks		□ 1mark
	Matches 1 apicultural tool or equipment to its use.		equipment to t		ches 3 apicultural s or equipment to r use.		4 apicultural tools or ent to their use.
	Name TWO PPEs used whilst working in an apiary.						
K-17	□ 0.5	marks				□ 1 mark	
	Names	1 PPE.			Names 2 PPEs.		
	Identify TWO parts of a k	peehive.					
K-17	□ 0.5	marks			□ 1mark		
	Identified 1 part	of the beel	nive.		Identified 2 parts of the beehive.		
K-17 to	tal:						
	Wear the appropriate ap	icultural PF	Es successfu	ılly as	part of your prepa	ration to ac	cess the apiary.
A-11	□ 0.5 marks			□1n	nark		□ 2 marks
	Wears all PPEs with min assistance.	imal	mal Wears most Passistance. Oassistance.		with minimal PPEs with no	Wears all F assistance	PPEs with no a.
NB: Thi	is will be assessed exclu	sively duri	ng beehive in	spec	tion.		
	Set-up a beehive correc	tly to be abl	e to host a be	e colo	ony.		
A-11	□ 0.5 marks			□1 n	nark		□ 2 marks
	Complete set-up of bees slight assistance for all chive.	hive with of the	Complete se slight assista the hive.	et-up ance	of beehive with for some parts of	Complete no assista	set-up of beehive with nce.



	Light-up a bee smoker saf	ely.					
	□ 0.5 marks	□ 0.5 marks		□ 1 mark		□ 2 marks	
A-11	Smoker was lit successful minimal assistance. Stude prompted to remove veil/of flammable items (long hais sleeves etc.) from the way Produced a stream of 'war smoke.	ent was other prompted to remir, flammable items sleeves etc.) fron		Student was zero ass veil/other long hair, hair, sle produce smoke.		was lit successfully with sistance. Student removed er flammable items (long eves etc.) from the way. ed a stream of 'warm'	
	Follow instructions to con	duct a be	ehive inspection u	nder supervision.			
	□ 2 marks	[□ 3 marks	☐ 4.5 mark	(S	□ 6 marks	
A-11	The student after prompting: - Stands behind hive rather than in front. or - Behaves appropriately in the apiary; (compulsory)	The student after prompting: - Stands behind hive rather than in front. or - Behaves appropriately in the apiary;		The student after prompting: - Behaves appropriately in the apiary; - Stands behind hive rather than in front.		The student autonomously: - Behaves appropriately in the apiary; - Stands behind hive rather than in front.	
	Student will, upon prompting, carry out 2 out the 3 tasks: - Hold frames appropriately; - Utilise a hive tool; Open or close a hive.	(compulsory) Student will, upon prompting, carry out: - Hold frames appropriately; - Utilise a hive tool; Open or close a hive.		Student will, upo prompting, carry - Hold fram appropria - Utilise a h tool; Open or close a h	out: nes itely; nive	Student will, upon prompting, carry out: - Hold frames appropriately; - Utilise a hive tool; Open or close a hive.	
A-11 t	otal:						



Topic 9: Poultry Farming. (22 marks)

K-18	Identify TWO pieces of equipment used in poultry farming.					
	□ 0.5	marks	□ 1 mark			
	Identifies 1 piece of equip	nent.	Identifies 2 pieces of equip	oment.		
K-18	List TWO types of poultry.					
	□ 0.5	marks	□1:	mark		
	Lists 1 poultry type.		Lists 2 poultry types.			
K-18 to	tal:					
K-19	Name TWO feeds used fro	m chick to adult in layer her	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-19 to	tal:					
	Organise the steps in the p	process involved in the prod	uction of chickens.			
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks		
K-20	Indicates 1 missing step. OR Indicates 1 missing precaution.	Indicates 2 missing steps. OR Indicates 2 missing precautions. OR Indicates 1 missing step and 1 missing precaution	Indicates 2 missing steps and 1 missing precaution. OR Indicates 1 missing step and 2 missing precautions.	Indicates 2 missing steps and 2 missing precautions.		
K-20 to	tal:					
	Explain briefly why any TW	O bio-security measures ar	e conducted in the running	of a farm.		
C-5	□ 2 n	narks	□4r	narks		
	Brief explanation of 1	bio-security measure.	Brief explanation of 2 I	bio-security measures.		
C-5 total:						



C-6	Log all activities involved in the production of chicks to pullet stage.						
	□ 1 mark	[□ 2 marks	□ 3 marks		□ 4 marks	
	Log includes at least 8 of the 14 steps listed in K20.		udes at least 10 4 steps listed in	Log includes at least 12 of the 14 steps listed in K20.		Log includes all 14 steps listed in K20.	
	Each entry should include:	Each en include:	try should :	Each entry shoul include:	d	Each entry should include:	
	 Date All observations Documentation of both positive and negative outcomes of the process. 	 Date All observations Documentation of both positive and negative outcomes of the process. 		 Date All observations Documentation of both positive and negative outcomes of the process. 		 Date All observations Documentation of both positive and negative outcomes of the process. 	
C-6 total:							
A-12	Collect eggs and store appropriately.						
	□ 0.5 marks		□15	marks	marks 🗆 2 marks		
	□ 0.5 marks		□ 1.5	IIIdiks		Z marks	
	Student follows given stan procedure with moderate assistance and prompting		Student follows given standard procedure with moderate assistance.			follows given standard ure without any nce.	
A-12	Clean and disinfect chicke	en coop ir	ncluding the drinke	r/feeder system.			
	□ 0.5 marks		□ 1.5	marks \square 2 marks		□ 2 marks	
	procedure with moderate pro		Student follows g procedure with m assistance.			follows given standard ure without any nce.	
	Replenish feeders and drir	nkers app	ropriately.				
A-12	□1:	mark			□ 2 n	narks	
	Student follows given standard procedure with moderate assistance.			Student follows given standard procedure without any assistance.			
A-12 to	tal:						



Year 11

Topic 10: Cottage Industry Production. (20 marks)

K-21	List TWO cottage industry products.					
	□ 0.	5 marks		□ 1 mark		
	Lists 1 specific item.			Lists 2 specific ite	ems.	
K-21	Match FOUR methods of	of preserv	ation to cottage in	dustry products.		
	□ 0.25 marks		0.5 marks	□ 0.75 mar	ks	□ 1 mark
	Matches 1 product to	Matches	s 2 products to	Matches 3 produ	cts to	Matches 4 products to
	its respective method		pective method	their respective n		their respective method
	of preservation.	of prese		of preservation.		of preservation.
K-21 total	•					•
K-22	List TWO items that ma	-	the cost to produc	e a cottage indust		
		5 marks				mark
	Lists 1 expenses.			Lists 2 expenses.		
K-22	Name TWO items that n		e included on a cot	tage industry produ		
		5 marks			l1	mark
	Names 1 item.			Names 2 items.		
K-22 total	:					
C-7	Estimate the costs invo	lved in a g	viven cottage indus	try product.		
	□ 1 mark					□ 2 marks
	Presents all costs involv	ved	Through minimal		Indepen	idently, presents all costs
	through minimal promp		presents all costs	s involved and		and correctly sums up
			correctly sums up		costs.	
			assistance.			
C-7	Determine a price for a	given cot	tage industry produ	ıct.		
	☐ 1mark		□ 1.5		□ 2 marks	
	Through minimal assist	ance,	Without any assis	stance,	Determines profit margin or	
	determines profit margi		determines profit		percentage profit that is fair to	
	percentage profit that is		percentage profit		both the producer and consume	
	both the producer and		both the produce		Produce	es a just selling price.
	consumer. OR		OR			
	Produces a just selling p	orice.	Produces a just s	elling price.		
C-7 total:						
	Prepare ingredients and	l containe	ers for the preparat	ion of a range cott	age indus	try products under
A-13	supervision.	, correante			ago mado	
	□ 1mark		□ 1.5	marks		□ 2 marks
	Prepares most ingredie		Prepares all ingre			s all ingredients and
	most containers from 2	given	containers from 2	2 given recipes.	contain	ers from 2 given recipes.
	recipes.		OR			
			Prepares most in			
1.10	5		containers from 2			
A-13	Process and transfer to	suitable			products	
	☐ 3 marks		□ 6 n			□ 8 marks
	Through significant assi		Through minimal			procedure from
	follows procedure from		follows procedure	e trom		ing up to
	processing up to	dind of	processing up to			/canning/packaging of 2
	bottling/canning/packa 2 cottage industry prodi		bottling/canning/packaging of 2			industry products as per
	per their respective reci		cottage industry products as per their respective recipes.		Litell 168	spective recipes.
A-13	Label a range of cottage		·			
A-10	□ 1mark	muustry				□ 2 marks
		· PO /			Γο: σ · ·	
	For each cottage indust		For each cottage			n cottage industry product,
	product, transfers label	пеацу	designs label, tra neatly and correc			label, transfers label nd correctly. No
	and correctly. Minimal assistance given.		assistance given.			nd correctly. No nce given.
A 40+++			assistance given.		ussistai	ioo givori.
A-13 total	•					



Topic 11: Crop Production. (31 marks)

K-23	Match FOUR crop types with crops.					
	□ 0.25 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 m	ethods 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 FOUR propagation t	echniques with crops.				
	□ 0.25 marks	□ 0.5 marks	□ 0.75 marks	□ 1 mark		
	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.		
K-23 to	otal:					
C-8	Establish a sowing and har products.	vesting calendar required fo	or the production of a range of	of cottage industry		
	□1r	nark	□ 2 n	narks		
	Produces a harvesting cale	endar for 2 crops.	Produces a harvesting calendar for 4 crops.			
C-8	Prepare a list of quantities of consumables required to produce a given number/weight of crops required f the production of a cottage industry product.					
	□ 0.5 marks	□ 1 mark	□ 1.5 marks	□ 2 marks		
	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.	List includes: propagative media, propagation accessories/materials, irrigation items.	List includes: propagative media, propagation accessories/materials, irrigation items.		
		Lists include 1 of 2 with quantities.	Lists include 2 of 3 with quantities.	Lists include ALL quantities.		
C-8	Estimate the costings invo production of a cottage inc		ven number/weight of crops	s required for the		
	□ 1 r	mark	□ 2 marks			
	Through given price list, stu produce the price per indiv The gross cost per total pro	ridual crop/kg. OR	Through given price list, stu produce the price per indiv gross cost per total project	ridual crop/kg and the		
C-8 to	tal:					
A-14	Sow/transplant a range of	crops that will be used for th	ne preparation of cottage inc	lustry products.		
	□ 2 marks	□ 4 marks	□ 6 marks	□ 8 marks		
	Conducts, 4 out of the 6 tasks throughout the lifetime of crops intended to be used in cottage industry produce.	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-14	Maintain a range of crops until maturity that will be used for the preparation of cottage industry products.					
	□ 1 mark	[□ 2 marks	□ 4 marks		□ 6 marks
	Conducts, 3 out of the 5 tasks throughout the lifetime of crops intended to be used in cottage industry produce.	assistar through of crops	ts, with greater nce, all tasks out the lifetime intended to be cottage industry	Conducts, with massistance, all ta throughout the lif of crops intended used in cottage in produce.	sks etime I to be	Conducts, without assistance, all tasks throughout the lifetime of crops intended to be used in cottage industry produce.
A-14	Harvest crops that will be	used for t	he preparation of c	ottage industry pro	ducts.	
	□ 1 mark	[□ 2 marks	□ 3 marks	3	□ 4 marks
	Conducts, 2 out if 4 tasks pertaining to the harvesting process of crops intended to be used in cottage industry produce.	Conducts, with greater assistance, all tasks pertaining to the harvesting process of crops intended to be used in cottage industry produce.		Conducts, with minimal assistance, all tasks pertaining to the harvesting process of crops intended to be used in cottage industry produce.		Conducts, without assistance, all tasks pertaining to the harvesting process of crops intended to be used in cottage industry produce.
A-14 to	otal:					
A-15	Apply fertiliser following in	struction	s under supervisio	n.		
	□ 1 mark		□ 2.5	marks		□ 4 marks
	Follows given set of instruction apply fertiliser suitably and with greater assistance.					
A-15 to	A-15 total:					



Topic 12: Rabbit farming. (29 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-24 total: K-25 Name TWO feeds used in commercial rabbit rearing. ☐ 1 mark □ 0.5 marks 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-25 total: 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 to consider when slaughtering animals. □ 0.5 marks ☐ 1 mark Lists 1 aspect. Lists aspects. K-26 total: C-9 Prepare a breeding programme calendar for a commercial rabbitry. ☐ 2 marks ☐ 3 marks ☐ 4 marks Prepares a breeding programme Prepares a breeding programme Prepares a breeding programme calendar involving most aspects calendar involving all aspects calendar involving all aspects



from breeding to slaughter

without any assistance.

minimal assistance.

from breeding to slaughter with

from breeding to slaughter

C-9 total:

without minimal assistance.

A-16	Remove any debris stuck to the wire and the accessories in cages.								
	□1.5	marks	□3r	narks					
	Task carried out skilfully be assistance/prompting.	rithout assistance.							
A-16	Clean and disinfect the rat	obitry including the drinker/	feeder system.						
	□ 2 n	narks	□4r	narks					
	Task carried out skilfully be assistance/prompting.	ut with moderate	Task carried out skilfully w	rithout assistance.					
A-16	Replenish feeders and drir	nkers (where applicable) app	oropriately.						
	□ 1 r	nark	□ 2 r	narks					
	Task carried out skilfully be assistance/prompting.	ut with moderate	Task carried out skilfully w	rithout assistance.					
A-16 total:									
A-17	Examine a rabbit to determine its sex and health condition.								
	□ 1 r	mark	□ 2 marks						
	Without any assistance, ex sex or health condition of t		Without any assistance, examined to identify both sex and health condition of the rabbit.						
A-17	Select a suitable breeding	pair of rabbits.							
	□ 0.5	marks	□ 1 mark						
	Without any assistance, se breeding rabbit from a give		Without any assistance, selected a suitable breeding pair from a given selection of rabbits.						
A-17	Follow instructions to carr	y out tasks required for a ra	bbit breeding programme.						
	□ 1.5 marks	□ 3 marks	□ 4.5 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.					
A-17 to	tal:								



ASSIGNMENT BRIEF FRONTSHEET





Subject

APPLIED VOCATIONAL CERTIFICATE ASSESSMENT FRONT SHEET

Cohort

Unit Number		Asse	ssment ber				
Assessment Title							
Date Set			Date	Due			
Class/Group			Stud	ent ID			
Student Name			Stud	ent Surna	ame		
School			'				
Name of Teacher/ Assessor							
Criteria							TOTAL
Maximum Mark							
Mark Achieved							
Assessor's feedba	ck	·					
		Name &	Surname				
1. Internal Verifier Assignment Brief Approval						_ Date: _	
Teacher / Assessor Following Internal Ve							
2. Internal Verifier Assessment Decision Approval (if sampled)			Surname			Date	
		Signatur	e			Date:	
3. Teacher / Assess	sor	Signatur	e:			 _ Date: _	

AVC Subjects Assessment Front sheet 2025-2026



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.

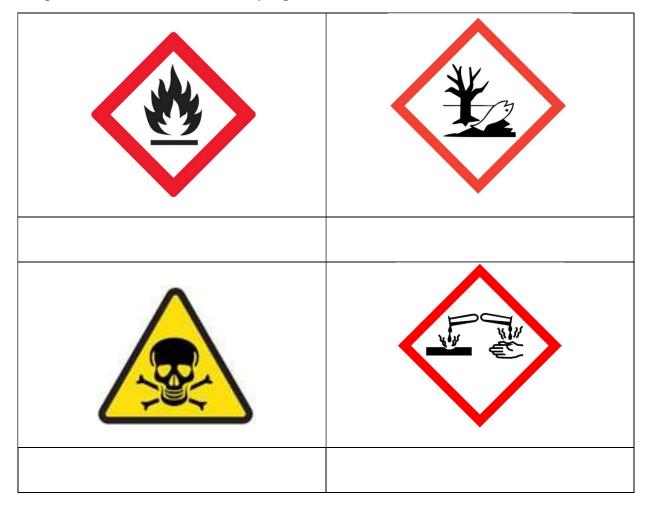




B) Match personal protective equipment to their functions.

Personal protective equipment	Function
Wellingtons	Protecting person from the sun
Respirator	Protecting person from pesticide fumes
Sun hat	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.



$\hbox{E) Match irrigation fittings to their application.}\\$

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 **pressure** and **flowrate** 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.

. ,, p, p					
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



D) List 2 tools and material required	to graft a plant.	
1:	2:	
E) Mention 2 considerations required	I to graft a plant.	
Consideration1:		
Consideration 2:		
5) 5 11 21 51 51 5 51		
F) Describe 2 benefits of grafted pla	nts.	
Benefit 1:		
benefit 1.		
D (1.2		
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:

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 furrows on each side of the ridge but are non-uniform. Uses the appropriate tools. NB: if PPEs are not used no marks are to be awarded.	Forms a ridge that is not straight. Forms furrows on each side of the ridge but are non-uniform. Uses the appropriate tools. NB: if PPEs are not used no marks are to be awarded.	Forms a neat and straight ridge. Forms furrows on each side of the ridge but are non-uniform. Uses the appropriate tools. NB: if PPEs are not used no marks are to be awarded.	Forms a neat and straight ridge. Forms neat and straight furrows on each side of the ridge. Uses the appropriate tools. NB: if PPEs are not used no marks are to be awarded.		
A-1						
	□ 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 guidence.	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. Skills:		
	with guidance. Skills: De-weeding and/or tilling	De-weeding and/or tilling	De-weeding and/or tilling	De-weeding and/or tilling		

A-1 Successfully grow a tray of seedlings.

☐ 1 mark

Student has independently conducted 1 of the below tasks in a skilful manner: sk

• Filling tray with given

Filling tray with given medium and seeding appropriately.

and/or raking and/or

removal of clippings

and/or transplanting

seedlings followed by

proper watering and/or

re-potting followed by

proper watering.

- 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%.

Comments and teacher's signature:

Student has independently conducted 2 of the below tasks in a skilful manner:

• Filling tray with given

☐ 2 marks

 Filling tray with given medium and seeding appropriately.

removal of clippings

and/or transplanting

seedlings followed by

proper watering and/or

re-potting followed by

proper watering.

- 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%.

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.

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.

☐ 3 marks ☐ 4 marks Student has 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 80%.
- 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 80%.

Total A-1:



A-2	Use the correct tools and procedure to take viable cuttings.				
	□ 0.5 marks	□ 1 mark	□ 2 marks	☐ 3 marks	
	Student conducts all tasks successfully 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.	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.	
A-2	Use the correct proced	ure to plant a number of	cuttings.		
	□ 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 nu	mber of cuttings.			
	□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks	
	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 75% but not less than 50%. NB: if PPEs are not used no marks are to be awarded.	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. Production of new plant via cutting with a success rate of not less than 75%. NB: if PPEs are not used no marks are to be awarded.	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 than 75%. NB: if PPEs are not used no marks are to be awarded.	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 than 75%. NB: if PPEs are not used no marks are to be awarded.	
Total A-2:					
	nents and teacher's signat	.ui G.			



SAMPLE CONTROLLED ASESSMENT



WRITTEN PAPER

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

GENERAL INSTRUCTIONS

DEADLINE:

• Application criteria will be assessed in class.

NA

- 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)

Match the fish species with their respective habitat.	

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)



(1)

Marine Mediterranean, housing Seabream	
Question 2	C-2 (6 marks)
a. A fish tank of 200 litres in the shape of a cube will be used for TEN Koi.	(2)
Tick X whether the tank is suitable according to:	
i. The Koi's size	
ii. The Koi's swimming pattern	
Justify your answer:	
b. Explain TWO benefits of water change of a fish tank.	
Benefit 1:	
	(1

Benefit 2:	
	(1)
c. Discuss the importance of using limestone rocks as décor when keeping African Cichli	ds.
	(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 APPLIED VOCATION	AL CERTIFICATE in AGI	RIBUSINESS
Name:	Class:	
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 marks)
a. Feed the right type and quantity	of food according to the	e fish in the running fish tank.
 Record, following testing, using below. 	suitable materials, the	water parameters listed in the record card
Record Card		
Parameter	Value	Is it Too high? Too Low? OK?
Nitrites (NO ₂ -)		
Nitrates (NO ₃ -)		
Hardness (GH) value in ⁰ (degrees of hardness)		
рН		
Chlorine (Cl ₂)		
Temperature in degrees Celsius (°C)		

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



SAMPLE PRACTICAL ASSESSMENT GUIDELINES FOR TEACHERS

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 FOUR 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	Level 1 : 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)	 i. No. Koi grow to around 60cm and tank is too small. ii. No. Koi swim in schools just below the surface; a cubic tank is not ideal for this. Accept other suitable answers
	Level 2 : 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.	C	2	Award 1 mark for each correct reason. (1 x 2 = 2 marks) NB: if reasons are just mentioned, not explained, award 0.5 marks instead.	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 requi	reme	nts to meet grading	criterion		
A-3			3 Marks		
□ 0.5 mar	ks	□ 1 mark	□ 2 marks	□ 3 marks	Comments
Student condi all tasks successfully b required assis for all tasks.	out	assistance:	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 marl	ks	□ 1 mark	□ 2 marks	□ 3 marks	Comments
Student meas and records successfully a water parame listed below requiring assistance for measuring parameters ar recording resuchlorine, Nitrites, pH, Whardness, Temperature.	all 6 ter both nd ults: ates,	successfully all 6 water parameter	and records successfully all 6 water parameter listed below	Student measures and records successfully all 6 water parameter listed below with zero assistance: Chlorine, Nitrates, Nitrites, pH, Water hardness, Temperature.	

A-3		3 Marks		
□ 1 mark	□ 2 marks	□ 3 marks	□ 4 marks	Comments
Student performs skilfully all 1 out of the 4 tasks below with zero assistance: - Remove a suitable amount of water using appropriate tools.	Student performs skilfully all 2 out of the 4 tasks below with zero assistance: - Remove a suitable amount of water using appropriate tools Measure and dose the correct water additive Top-up water to appropriate level After teacher has switched back on electrical items, check that all components and décor are in the appropriate condition	Student performs skilfully all 3 out of the 4 tasks below with zero assistance: Remove a suitable amount of water using appropriate tools.	Student performs skilfully all 4 tasks below with zero assistance: - Remove a suitable amount of water using appropriate tools Measure and dose	Comments
TOTAL MARK FOR A	A-3 (OUT OF 10 MAR	KS):		



EVIDENCE OF PRACTICAL WORK AND SELF-REFLECTION JOURNAL AVC AGRIBUSINESS

Name: _____

Cohort: 202__ / 202__





How to fill in this portfolio?

• After you complete a practical task, include a piece of evidence showing that you have truly done this task. Every piece of evidence needs to have a title and date e.g.



Transplanting petunias 23/03/2025

- At the end of each year/unit you have a number of questions you need to answer where there is no right or wrong answer; just write the truth to reflect on your work throughout the scholastic year.
- At the end of the whole course, you have a final evaluation. You will need to reflect on your 3-year journey as an agribusiness student.
 Again, there is right or wrong answer here.
- This portfolio is to be kept throughout the course and amounts up to 20 marks in the year 11/unit 3 total of marks.



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.



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.

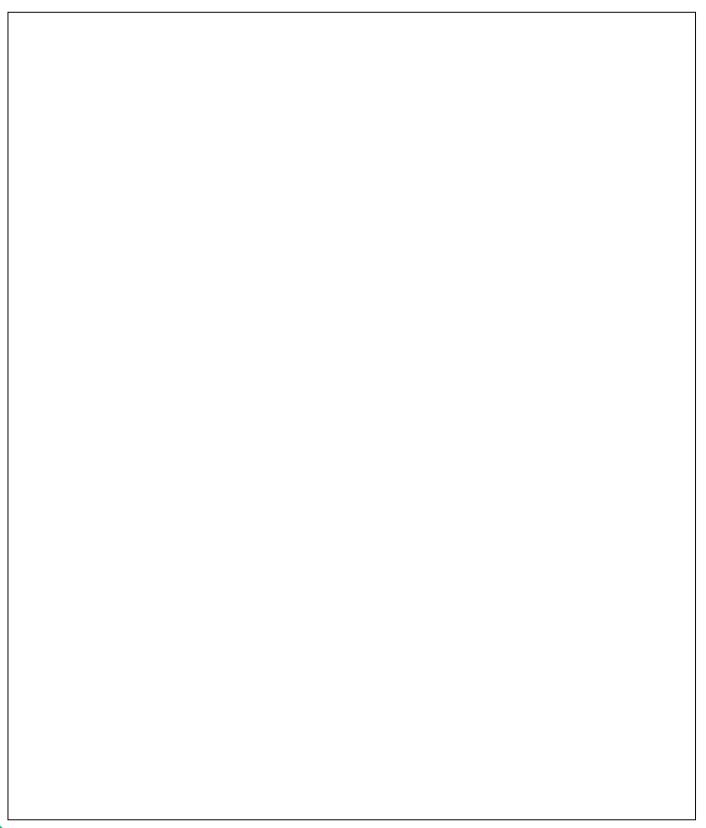
•	Successfully grow a number of cuttings.



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 c	hange fo	or a ru	nning f	ish t	tank.
---	-----------	---------	----------	---------	---------	-------	-------





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

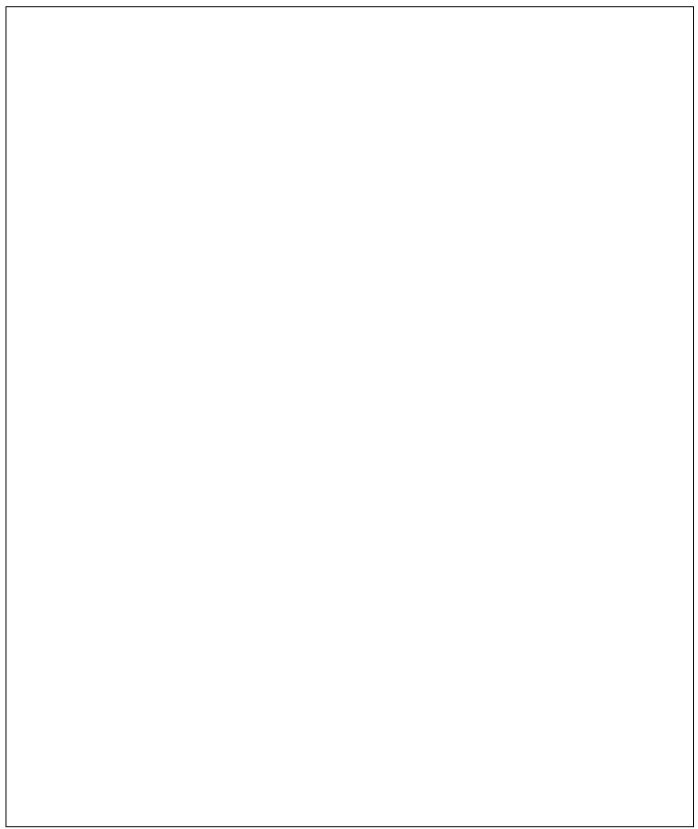
•	Use the correct procedure for handling a given mammalian pet.



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	procedu	ire to s	et-up a	nest box.
---	---------	---------	---------	----------	---------	-----------





End of Year 9 Evaluation

Which of the practical task did you find most interesting and why?
Which practical task did you find challenging and why?
Was there a practical task that you disliked. If yes, why?
Mark (max. 5):
Name of teacher:
Signature of teacher:



SECTION B: Year 10

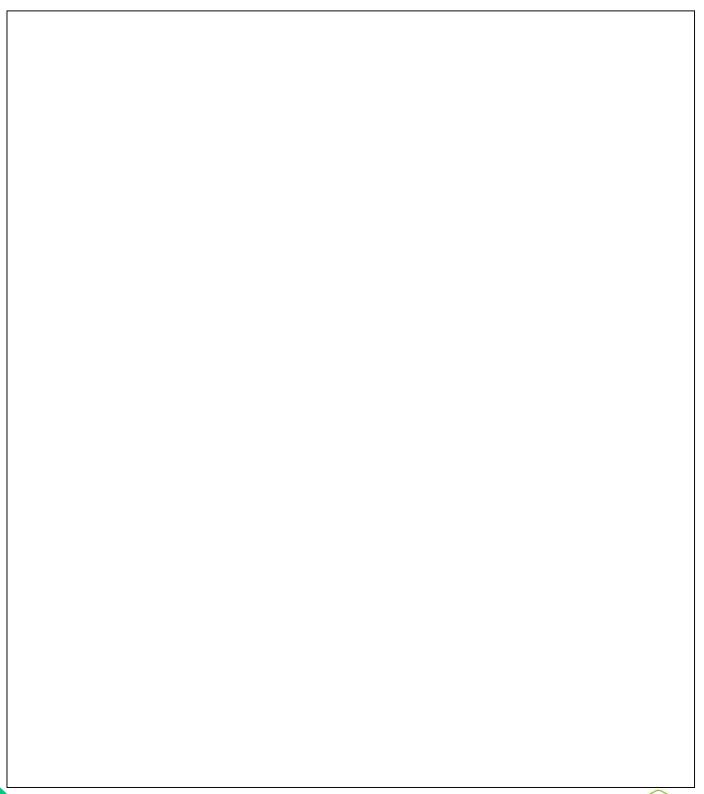




A - 6 Conduct tasks pertaining to landscaping.

- 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 garde	n area as per given plan.
---	---	---------------------------

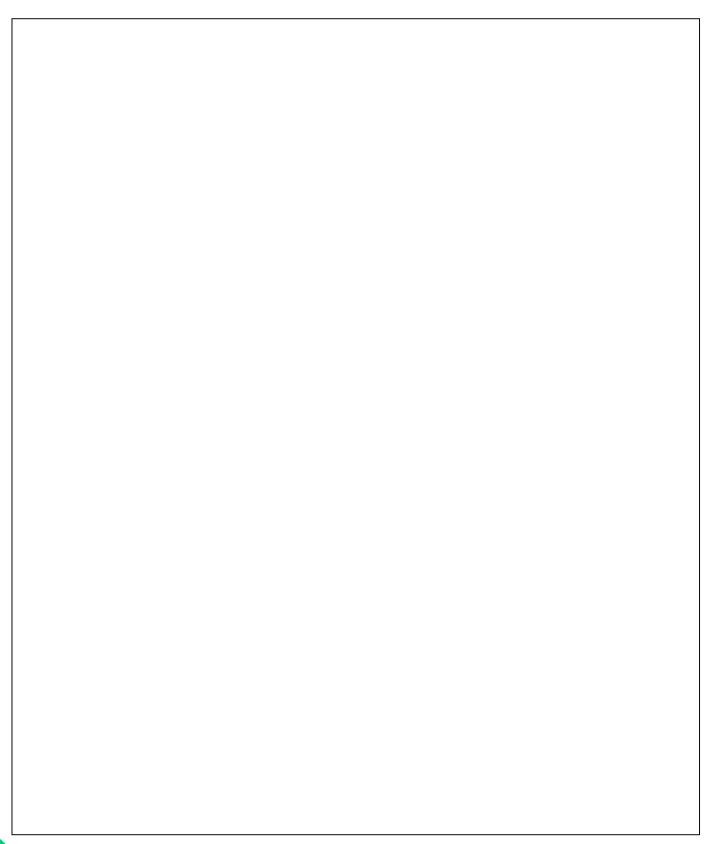




A - 7 Practice routine work that is important for garden upkeep.

•	Maintain a	given (garden	area over a	period of	time under	supervision
•	wantan a	ı aiveii	uai ucii	ai ca ovei a	Deliou oi	unic anaci	SUDEI VISIO

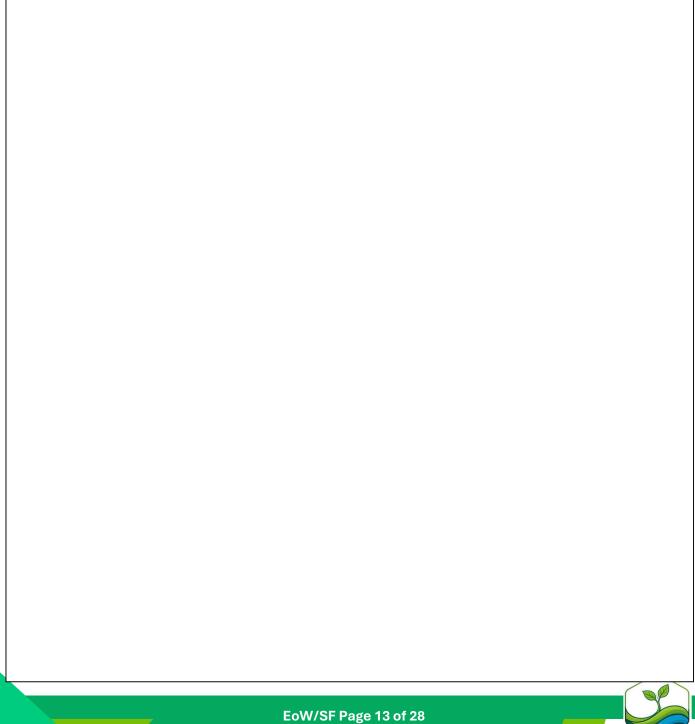
 Conduct a given pruning task under supervis 	ask under supervisid	task	pruning	given	Conduct a	•
---	----------------------	------	---------	-------	-----------	---





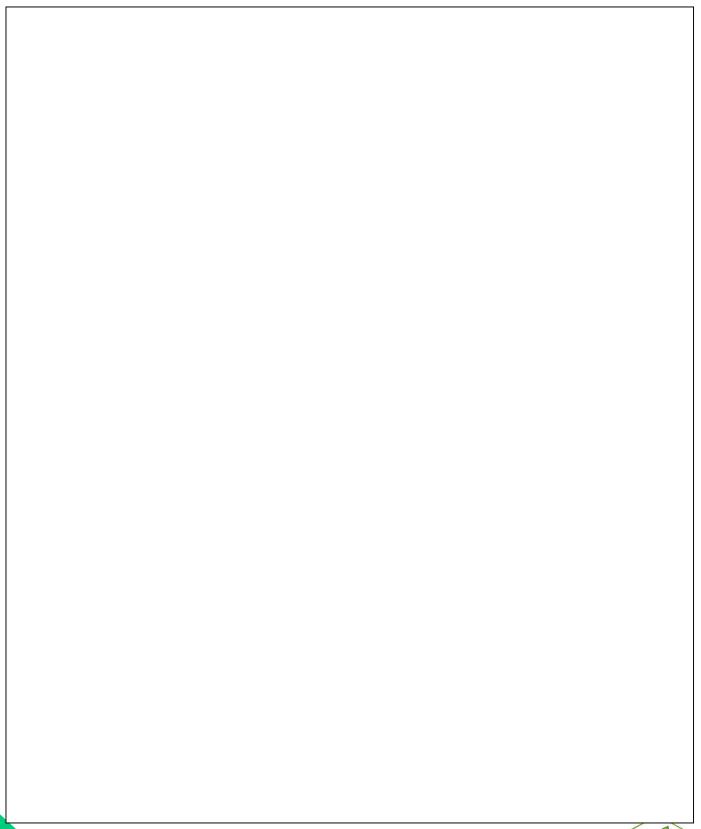
A - 8 Undertake tasks leading to a healthy fish tank that is visually pleasing.

- 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.



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.

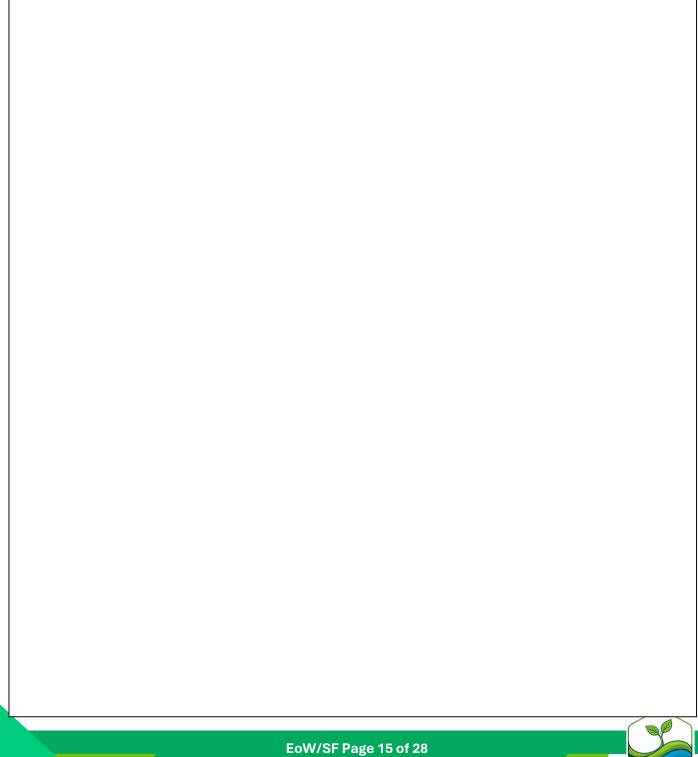




A – 10 Assist your teacher during an animal grooming activity.

- Select the correct tools the teacher asks you to prepare.
- Assist in the handling and grooming task following instructions given by your teacher.

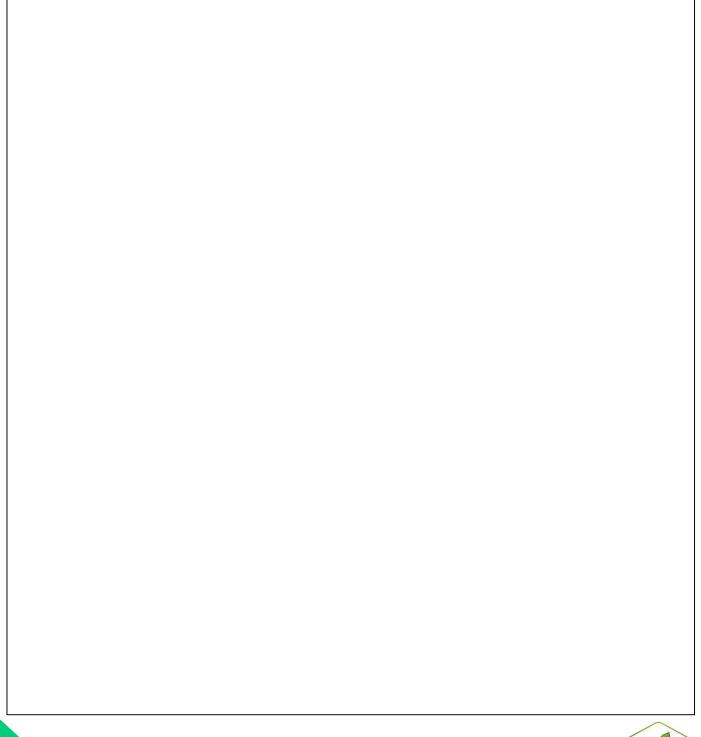
•	Maintain	grooming	tools	appropriately	follo	wing	instructions.
---	----------	----------	-------	---------------	-------	------	---------------



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.

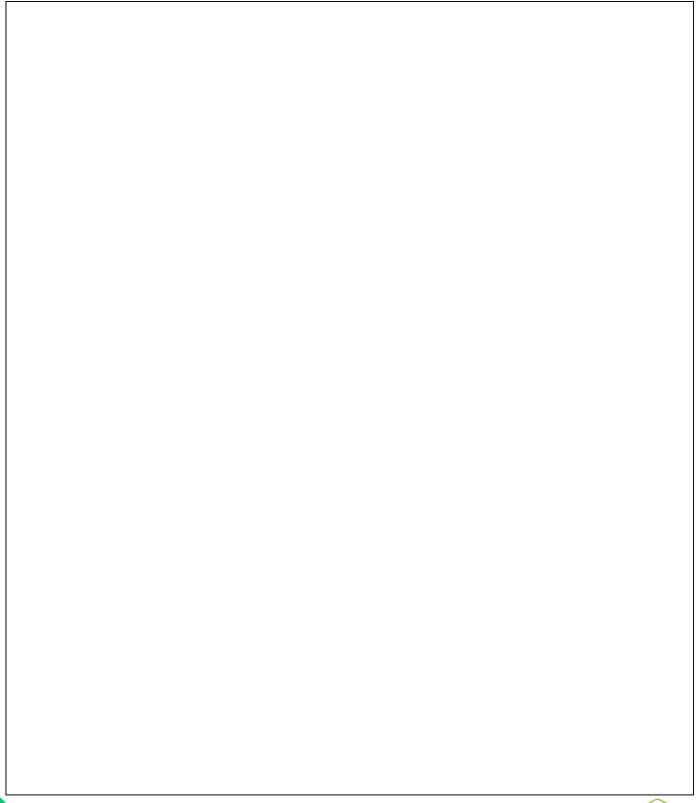
_	Follow instructions	to conduct a beehive	inopostion under	· cuporvicion
•	Follow instructions	to conduct a beenive	e inspection unaer	Supervision.





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.





End of Year 10 Evaluation

Which of the practical task did you find most interesting and why?
Which practical task did you find challenging and why?
Was there a practical task that you disliked. If yes, why?
Mark (max. 5):
Name of teacher:
Signature of teacher:



SECTION C: Year 11





A – 13 Produce a range of cottage industry products under supervision.

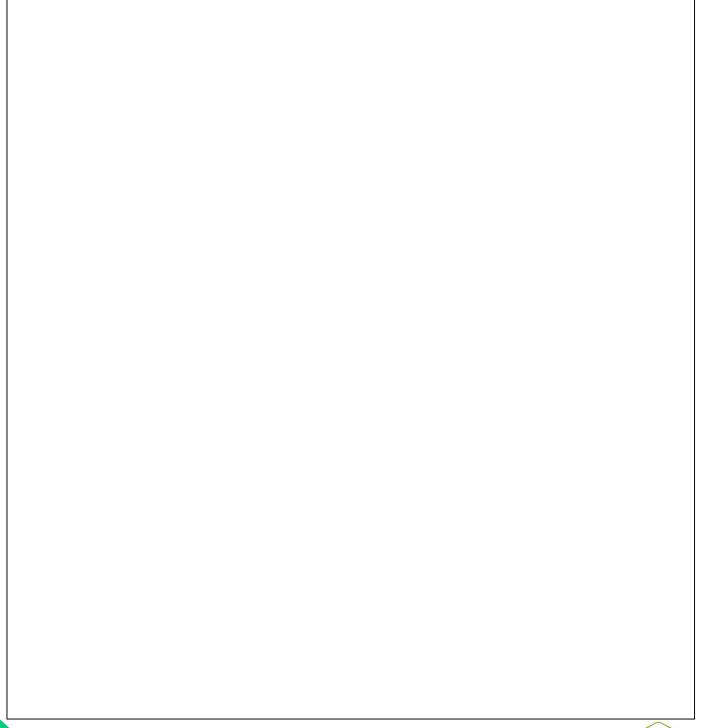
- Prepare ingredients and containers for the preparation of a range cottage industry products under supervision.
- Process and transfer to suitable packaging a range of cottage industry products under

sup • Lab	ervision. el a range of co	ottage industr	ry products ui	nder supervis	sion.	



A – 14 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.





$\pmb{\mathsf{A}} - \pmb{\mathsf{15}}$ Apply fertiliser following instructions under supervision.

Evidence of Practical Work



A – 16 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.



A – 17 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.



End of Year 11 Evaluation

1. Which of the practical task did you find most interesting and why?
2. Which practical task did you find challenging and why?
3. Was there a practical task that you disliked. If yes, why?
Mark (max. 5):
Name of teacher:
Signature of teacher:



SECTION D: End of course





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



End of Year 11 total portfolio mark

End of course evaluation mark (max. 5):
End of year 11 evaluation mark (max. 5):
Total (max. 10):
Name of teacher:
Signature of teacher:



MARKING SCHEME FOR SELF-EVALUATION EXERCISE – AVC AGRIBUSINESS

End of year evaluation relevant to Section A - Year 9, Section B - Year 10 and Section C - Year 11

Year/Unit evaluation correction rubric				
1 mark	k 2 marks 3 marks		4 marks	5 marks
 Attempted 1 out of 3 questions. Attempt included an answer that is backed with an explanation. Argument/s is/are relevant to respective 	 Attempted 2 out of 3 questions. 2 attempts included an answer that is backed with an explanation. 1 out of 3 arguments are relevant to 	 Attempted all questions. 2 out of 3 attempts included an answer that is backed with an explanation. 1 out of 3 arguments are relevant to 	 Attempted all questions. 2 out of 3 attempts included an answer that is backed with an explanation. 2 out of 3 arguments are relevant to 	 Attempted all questions. All attempts included an answer that is backed with an explanation. All arguments are relevant to respective unit.
	J	_	Ŭ .	respective unit

Section D - End of Course

Course evaluation	on correction rub	ric		
1 mark	2 marks	3 marks	4 marks	5 marks
 Attempted 2 out of 4 questions. All attempts included an answer that is backed with an explanation. Most arguments are relevant to course. Student identifies strengths and weaknesses in a very limited manner. 	 Attempted 3 out of 4 questions. All attempts included an answer that is backed with an explanation. Most arguments are relevant to course. Student somewhat identifies strengths and weaknesses. 	 Attempted all questions. All attempts included an answer that is backed with an explanation. Most arguments are relevant to course. Student somewhat identifies strengths and weaknesses. 	 Attempted all questions. All attempts included an answer that is backed with an explanation. Most arguments are relevant to course. Student clearly identifies strengths and weaknesses. 	 Attempted all questions. All attempts included an answer that is backed with an explanation. All arguments are relevant to course. Student clearly identifies strengths and weaknesses.

Marks to be inserted in My School portal

End of Year 9	Section A mark	Maximum = 5 marks
End of Year 10	Section B mark	Maximum = 5 marks
End of Year 11	Section C + Section D mark	Maximum = 10 marks



ANNEXE A – UNIT DISTRIBUTION PLAN TEMPLATE



Unit Distribution Plan for Scholastic Year _____

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

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



- Grass cutting visors
- 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

- Pruning shears (secateurs)
- 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
	Niveleve lesves

- Nucleus boxes
- Rapid bee feeders
- Frame wire
- Wire crimper
- Wire embedder
- Smoker and fuel
- Hive tools
- Centrifugal honey extractor

- Honey ripener
- Honey strainer
- Uncapping knives
- Queen excluders
- Ventilated full body suits
- Bee keeping veils
- Bee keeping jackets
- Beekeepers' gloves
- Convection oven

Poultry

- Free range or barn or EU standard cage system for layer hens
- Poultry drinkers
- Poultry feeders
- Chick drinkers
- Chick feeders

- Hen nesting box
- Electric brooder
- Egg candler
- Poultry crates
- Egg cartons
- Automated incubator

General pets

- Dwarf rabbit cages
- Small rodent cages
- Aviary
- Claw trimmer

- Dog/cat transport cage
- Bird cages
- Bird nesting boxes for available cages
- Feeder/drinker equipment

Cottage industry

- Access to food lab
- Sugar thermometers
- Stainless steel funnels (various sizes)
- Minimum 5kg weighing scales

- Digital food thermometer
- Food processor
- Fine mesh strainers
- 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.

