



Subject Science Today / ASDAN Key Stage 4
Year 11



	HALF TERM 1	HALF TERM 2	HALF TERM 3	HALF TERM 4	HALF TERM 5	HALF TERM 6
Topic Titles	LO1	LO2, LO3, LO4	Animal Care - Animal Investigation			
Objectives (The things we want the pupils to make progress in)	Demonstrate how to maintain a planted area.	Know when to carry out maintenance of planted areas. Be able to plant an area for a purpose. Be able to maintain planted areas.	Students must explain how animals are used in the armed forces. You should research what different roles animals play. You could describe what role they may play in the future.	Today you must learn how an animal develops through life and their changing needs. To demonstrate this you should show how animals develop from birth to death. You could investigate how technology influences these changes to their benefit.	Learn basic health and safety when working with animals. Today you must demonstrate that you can look after animals correctly. You should explain the Five Freedoms necessary for animal welfare. You could explore the work that the RSPCA do to promote animal welfare.	you must demonstrate that you can look after animals correctly. You should explain the Five Freedoms necessary for animal welfare. You could explore the work that the RSPCA do to promote animal welfare.
Key Terms	planted area, grassland, tools, fertilisers, pruning	planted area, grassland, tools, fertilisers, pruning				
Stage 2 Entry Level 3	Demonstrate a consistent knowledge of how to independently maintain a planted area. Planted areas - Planted areas may include: • indoor garden, paved areas, formal, cottage gardens rock gardens, window box, hanging basket, grassland, parkland and lawns. Tools - Learners must be able to recognise appropriate tools for at least one type of land maintenance. Maintenance Activities Learners should carry know about at least two maintenance activities. Examples of maintenance include: • Weed control; • Use of fertilises; • Repairing damaged areas; • Pruning of shrubs/trees; • Lawn care (e.g. moss control, repairing damaged edges, aerating lawn) • Soil care (e.g. drainage, acidity) Learners must identify the tools required to carry out maintenance of planted areas. They should describe how to carry out maintenance of planted areas	Learners must cover at least one aspect of the gardening calendar. Examples may include: o Calendar for the care of grassed areas o Calendar for the care of shrubs/trees (e.g. pruning, topiary, removing a branch) o Calendar for the care of flower beds/vegetable garden. Learners need to identifying suitable plants for at least one type of planted area • Design requires consideration of: o Height; o colour; o flowering time. Suggest plants for a design and Assist in the planting of an area. (Level 2) Design an area for planning and Follow a design to plant an area. Maintenance of planted areas	Module 1, Section B - Task Research how animals are used in the armed forces, both today and in the past. What different roles do the animals play (e.g. guard dogs, sniffer dogs, search & rescue dogs, ceremonial horses, working hoses & mules, regimental mascots, carrier pigeons and gas-detecting birds)? What role could they play in the future Teacher will help you by guiding you on conducting your research, providing support sheets to discuss different roles animals play and what they could do in the future?	Module 1, Section B - Task 2 Draw a timeline for five different animals showing their development from birth to death, indicating how the animal's needs change throughout their life. Teacher will support you by teaching you about timelines and by guiding you in learning how the animals needs change throughout their life.	Module 2 - Section A - Task 2 find out which pets or working animals carry parasites. Identify the parasites that can be transferred to humans and describe how they can damage your health. Teacher will guide you by teaching you about parasites and their impact. Demonstrate appropriate behaviour around an animal fo your choice. Collect a witness testimony to show you have kept yourself safe and behaved properly. Provide annotated images to support this. Teacher will support you by teaching you how to behaviour around animals. Interview a person who works with or handles animals regularly (ARC Ranger). Create a leaflet to show the basic health and safety procedures that need to be followed when working with or coming into contact with animals. Teacher will support you by guiding you on creating good surveys and producing a leaflet.	Create a powerpoint presentation showing how you look after a chosen pet. Show how you ensure that the Five freedoms necessary for animal welfare are met. Extension: Describe how the RSPCA promote animal welfare. As a group, design a board game or online game for young children, with cleaar instructions, to show how to look after an animal of your choice. Include risk factors (e.g. extreme temperatures, parasites, harmful substances) and tips for keeping the animal happy.
Stage 1 Entry Level 2	Demonstrate an adequate knowledge of how to maintain a planted area with some support Planted areas - Planted areas may include: • indoor garden, paved areas, formal, cottage gardens rock gardens, window box, hanging basket, grassland, parkland and lawns. Tools - Learners must be able to recognise appropriate tools for at least one type of land maintenance. Maintenance Activities Learners should carry know about at least two maintenance activities. Examples of maintenance include: • Weed control; • Use of fertilises; • Repairing damaged areas; • Pruning of shrubs/trees; • Lawn care (e.g. moss control, repairing damaged edges, aerating lawn) • Soil care (e.g. drainage, acidity) Learners must identify the tools required to carry out maintenance of planted areas.	Learners must cover at least one aspect of the gardening calendar. Examples may include: o Calendar for the care of grassed areas o Calendar for the care of shrubs/trees (e.g. pruning, topiary, removing a branch) o Calendar for the care of flower beds/vegetable garden. Learners need to identifying suitable plants for at least one type of planted area • Design requires consideration of: o Height; o colour; o flowering time. Suggest plants for a design and Assist in the planting of an area.	Research how animals are used in the armed forces, both today and in the past. What different roles do the animals play (e.g. guard dogs, sniffer dogs, search & rescue dogs, ceremonial horses, working hoses & mules, regimental mascots, carrier pigeons and gas-detecting birds)? What role could they play in the future	Module 1, Section B - Task 2 Draw a timeline for five different animals showing their development from birth to death, indicating how the animal's needs change throughout their life. Teacher will support you by teaching you about timelines and by guiding you in learning how the animals needs change throughout their life.	Module 2 - Section A - Task 2 find out which pets or working animals carry parasites. Identify the parasites that can be transferred to humans and describe how they can damage your health. Teacher will guide you by teaching you about parasites and their impact. Demonstrate appropriate behaviour around an animal fo your choice. Collect a witness testimony to show you have kept yourself safe and behaved properly. Provide annotated images to support this. Teacher will support you by teaching you how to behaviour around animals. Create a leaflet to show the basic health and safety procedures that need to be followed when working with or coming into contact with animals. Teacher will support you by guiding you on creating good surveys and producing a leaflet.	Create a powerpoint presentation showing how you look after a chosen pet. Show how you ensure that the Five freedoms necessary for animal welfare are met. Extension: Describe how the RSPCA promote animal welfare. As a group, design a board game or online game for young children, with cleaar instructions, to show how to look after an animal of your choice. Include risk factors (e.g. extreme temperatures, parasites, harmful substances) and tips for keeping the animal happy.