Year 9 RGS Rural Science – Autumn Term 1 – Managing Animal Health

Required knowledge for skills

Students will develop skills in farm management and animal health. They will learn to identify and manage risks, recognise signs of animal health, and understand ruminant and non-ruminant digestion. Students will develop skills in risk identification and management, safety practices, analytical skills, and information organisation.

Required knowledge for skills

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Go to appropriate year group and topic. Web pages and quizzes to support learning and revision

How is this topic assessed?

Self assessment sheets, practical observations and test at the end of the topic

Emerging	Developing	Secure	Mastering	Extending
• Identify basic risks associated with working in a farm setting. • Recognise at least 2 signs of good or ill health in an animal (e.g., sheep).	• Understand basic methods to manage risks on a farm. • Identify potential hazards in a farm setting. • Recognise 3-4 signs of good or ill health in an animal and understand their basic implications.	• Explain the key areas to consider to enable an animal to be healthy. • Understand the difference between ruminant and non-ruminant digestion. • Identify and demonstrate safe working practices in a farm setting.	• Analyse why certain signs of good/ill health may cause problems for animals and how they can be prevented. • Explain the role of microbes in ruminant digestion. • Understand and explain the importance of farm assurance schemes and their benefits to consumers and producers.	• Explain in detail why each sign of good/ill health in an animal may be problematic, its causes, and prevention methods. • Explain the roles of the four stomach chambers in ruminant digestion and the role of microbes.

Year 9 RGS Rural Science – Autumn Term 2 – Feeding Animals

Required knowledge for skills

Students will focus on identifying feed types, crops, and essential tools while developing transferable skills. They will enhance critical thinking by analysing nutritional content and evaluating agricultural impacts, numeracy through feed ratio calculations, and practical skills in animal welfare, livestock handling, and photosynthesis, and develop problem-solving skills by creating feed plans and proposing solutions for environmental changes affecting photosynthesis.

How is this topic assessed?

Self assessment sheets, practical observations and test at the end of the topic

Required knowledge for skills

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Emerging	Developing	Secure	Mastering	Extending
• Recognise different types of feed used in livestock husbandry. • Understand the basic concept of animal welfare. • Recognise the main tools and equipment needed for livestock handling. • Identify common field crops grown in the UK.	• Understand different feed types used in livestock husbandry and their importance. • Visually identify common feeds and their characteristics. • Develop basic numeracy skills by calculating simple feed ratios. • Summarize the lesson content in writing to develop literacy skills. • Understand basic procedures involved in restraining livestock. • Identify the regional distribution of crops in the UK.Recognize the uses of main crop products.	• Explain the different feed types commonly used in livestock husbandry. • Calculate feed ratios. • Demonstrate understanding of basic livestock restraining procedures. • Recognise and describe the uses of main crop products. • Explain the process of photosynthesis, the role of chlorophyll, and its importance in the ecosystem.	• Analyse the nutritional content and benefits of different feed types for livestock. • Explain the importance of animal welfare and ethical practices in livestock husbandry. • Understand the importance of Isle of Man agriculture and compare it to UK agriculture. • Recognise the impact of agriculture on the environment and economy.	• Evaluate the effectiveness of various feed types in livestock husbandry. • Understand and demonstrate advanced livestock restraining techniques. • Evaluate the regional distribution and uses of field crops in the UK and Isle of Man. • Compare and contrast the agricultural practices of the Isle of Man and the UK. • Assess the impact of agriculture on the environment and economy. • Describe how environmental changes affect photosynthesis and propose mitigation strategies.