Year 7 RGS Rural Science – Autumn 1 – Safety, Risks & Hazards & Chick Development

Required knowledge for skills

In this topic, students will learn to identify and minimise various farm risks. They will familiarise themselves with the farm and observe a chick's changes from hatching to four weeks old, taking measurements and interpreting data. This will develop transferable skills such as critical thinking, problem-solving, data analysis, observation, and risk management.

Required knowledge for skills

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Username: RGSRural Password: Rural23

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
• Recognise farm hazards. • Identify hazards. • List physical changes in your chick from hatching to 4 weeks. • List behavioural changes in your chick from hatching to 4 weeks. • Describe how to handle a chick.	• Explain how to ensure safety for yourself and others. • Describe behavioural changes in your chick over 4 weeks. • Comment on size and weight increases, and display this in a table.	• Explain the importance of safety rules. • Explain how risks vary in different situations. • Use labelled pictures to show changes in your chick's mass, height, wing length, beak length, middle toe length, and colour from hatching to 4 weeks.	• Describe the symptoms of foot and mouth disease. • Explain how foot and mouth disease spreads. • Describe the patterns seen on the graphs.	• Describe the importance of biosecurity. • Describe all patterns seen on the graphs. • Compare your chick's changes to another chick from the same brood. • Discuss problems in keeping chickens as pets.

Year 7 RGS Rural Science – Autumn 2– Crop Cultivation & Safe working

Required knowledge for skills

Students will understand the growing conditions required for various crops and the correct use of equipment, gaining transferable skills such as critical thinking, problem-solving, project management, environmental stewardship, and sustainable resource management.

Required knowledge for skills

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Username: RGSRural Password: Rural23

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
• Stay safe on the allotments. • State the conditions seeds need to germinate. • Identify the main parts of soil and explain their importance.	• Use tools correctly. • Explain how to determine the water and air content of soil. • Explain how to identify the rock particles in soil. • Identify the main parts of a plant.	• Explain why seeds need the correct conditions to germinate.	•Explain the process of germination. •Explain the function of germination. •Perform crop husbandry to benefit the crops.	• Suggest how crop growing conditions could be altered to improve growth yield

Year 7 RGS Rural Science – Spring 1 – Seeds / Parasites

Required knowledge for skills

Students will learn the structure and functions of seed parts, gain experience in sowing seeds, understand how parasites affect livestock, and identify flower parts and their functions. They will relate flower structure to pollination and fertilisation methods, gaining transferable skills such as critical thinking, problem-solving, project management, environmental stewardship, and sustainable resource management.

Required knowledge for skills

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Username: RGSRural Password: Rural23

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 peer assessed presentation

Emerging	Developing	Secure	Mastering	Extending
• Sow seeds correctly. • Identify the parts of a flower.	• Identify the main structures of a seed. • Explain the functions of the parts of a flower.	• Explain what a parasite is	• Explain the function of seed structures. • Describe the effects of a named parasite on its host. • Explain pollination, both wind and animal.	• Describe how parasites can affect farm productivity. • Explain the diversity of flowers and the reasons for it.

Year 7 RGS Rural Science – Spring 2 – Flowers and Pollination

Required knowledge for skills

Students will develop skills in crop husbandry, plot preparation, and planting. They will understand the role of bees in agriculture, address soil erosion, and master composting techniques, gaining transferable skills such as critical thinking, problem-solving, project management, environmental stewardship, and sustainable resource management.

Required knowledge for skills

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Username: RGSRural Password: Rural23

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
• Recognise the importance of clearing debris and old crops from plots. • Identify basic tools used in land preparation.	• Understand the fundamental steps involved in preparing plots for planting. • Demonstrate basic skills in clearing debris and old crops from plots.	• Explain the importance of preparing plots for planting in crop husbandry. • Perform the necessary steps to clear debris and old crops from plots effectively.	• Analyse the impact of proper land preparation on crop yield and health. • Exhibit advanced skills in preparing land for planting, including soil testing and conditioning.	• Evaluate different methods of land preparation and their suitability for various crops and soil types. • Develop and implement a comprehensive land preparation plan, considering environmental sustainability and crop requirements.

Year 7 RGS Rural Science – Summer 1 – Sustainability

Required knowledge for skills

Students will gain knowledge in renewable energy, sustainability, crop husbandry, wildlife conservation, and organic farming. This will equip them with transferable skills such as critical thinking, problem-solving, project management, environmental stewardship, and sustainable resource management.

Required knowledge for skills

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Username: RGSRural Password: Rural23

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
• Demonstrate safe working practices. • State the three types of bees in a honey bee hive..	• State the lifecycle of a bee. • Describe how bees make honey.	• Assess soil moisture conditions. • Identify the growth stage of a crop	• Describe what to look for in a crop ready to harvest.	• Demonstrate safe working practices at all time

Year 7 RGS Rural Science – Summer 2 – Crop Production

Required knowledge for skills

Students will learn about urban agriculture and the water cycle. This will develop transferable skills such as critical thinking, problem-solving, project management, environmental stewardship, and sustainable resource management.

Required knowledge for skills

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Username: RGSRural Password: Rural23

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
• Recognise the basic requirements for growing vegetables, including soil, water, and sunlight. • Identify common gardening tools.	• Understand the basic needs for vegetable growth, including nutrients and sunlight. • Identify common gardening tools and their uses in tasks like planting and watering. • Recognise the need for regular maintenance tasks such as watering and weeding.	• Explain the importance of soil, nutrients, water, and sunlight in growing vegetables. • Demonstrate the use of common gardening tools for tasks like planting, watering, and weeding. • Identify common vegetable diseases and pests and basic control methods.	• Explain the significance of regular maintenance tasks in ensuring healthy plant growth. • Identify and manage common vegetable diseases and pests effectively.	• Research and implement advanced methods for controlling vegetable diseases and pests. • Explain how water availability affects agricultural practices and propose solutions for water management in gardening.