Ekka

ROYAL QUEENSLAND SHOW

CURRICULUM ALIGNMENT & CLASSROOM RESOURCES

RAISING HYLINE HENS COMPETITION

Foundation - 12

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COMPETITION OVERVIEW

Raising Hy-Line Hens

This competition enables students to gain insight into the cycle of life by raising their own laying hens. The Ekka has partnered with Specialised Breeders Australia to provide schools with six eight-week old Hy-Line Brown hens. The competing schools are required to raise the hens to 26 weeks. The aim is to have the hens laying and ready to compete at the Ekka.

Schools submit their three best hens to take to the Ekka, with the competition consisting of three main elements: Birds, Eggs & Project.

The competition is judged by experts from the commercial poultry industry and the birds are judged to a commercial standard. Each component is assessed by industry experts.

IMPORTANT CONTACTS

Competition Enquiries

entries@rna.org.au

Education Content Enquiries

education@ekka.com.au

Ekka School & Group Bookings Enquiries

groupbookings@ekka.com.au

CURRICULUM ALIGNMENT

FOUNDATION

Science Understanding: Biological Sciences

Observe external features of plants and animals and describe ways they can be grouped based on these features (AC9SFU01)

Humanities and Social Sciences: Geography

The features of familiar places they belong to, why some places are special and how places can be looked after (AC9HSFK03)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

CURRICULUM ALIGNMENT

YEAR 1

Science Understanding: Biological Sciences

Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs (AC9S1U01)

Science Inquiry: Planning and Conducting

Suggest and follow safe procedures to investigate questions and test predictions (AC9S1I01)

Mathematics: Number

Represent practical situations involving addition, subtraction and quantification with physical and virtual materials and use counting or subitising strategies (AC9MFN05)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Literacy

Personal and social capability

CURRICULUM ALIGNMENT

YEAR 2

Science Inquiry: Planning and Conducting

Suggest and follow safe procedures to investigate questions and test predictions (AC9S2I02)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

CURRICULUM ALIGNMENT

YEAR 3

Science Understanding: Biological Sciences

Compare characteristics of living and non-living things and examine the differences between the life cycles of plants and animals (AC9S3U01)

Science Inquiry: Planning and Conducting

Use provided scaffolds to plan and conduct investigations to answer questions or test predictions, including identifying the elements of fair tests, and considering the safe use of materials and equipment (AC9S3I02)

Science Inquiry Skills: Communicating

Write and create texts to communicate findings and ideas for identified purposes and audiences, using scientific vocabulary and digital tools as appropriate (AC9S3I06)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

CURRICULUM ALIGNMENT

YEAR 4

Science Understanding: Biological Sciences

Explain the roles and interactions of consumers, producers and decomposers within a habitat and how food chains represent feeding relationships (AC9S4U01)

Humanities and Social Sciences: Geography

The importance of environments, including natural vegetation and water sources, to people and animals in Australia and on another continent (AC9HS4K05)
Sustainable use and management of renewable and non-renewable resources, including the custodial responsibility First Nations Australians have for Country/Place (AC9HS4K06)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

CURRICULUM ALIGNMENT

YEAR 5

Humanities and Social Sciences: Questioning and Researching

Locate, collect and organise information and data from primary and secondary sources in a range of formats (AC9HS5S02)

Humanities and Social Sciences: Concluding and Decision-making

Propose actions or responses to issues or challenges and use criteria to assess the possible effects (AC9HS5S06)

Humanities and Social Sciences: Economics and Business

Types of resources, including natural, human and capital, and how they satisfy needs and wants (AC9HS5K08)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

CURRICULUM ALIGNMENT

YEAR 6

Science Understanding: Biological Sciences

investigate the physical conditions of a habitat and analyse how the growth and survival of living things is affected by changing physical conditions (AC9S6U01)

Humanities and Social Science: Economics and Business

Influences on consumer choices and strategies that can be used to help make informed personal consumer and financial choices (AC9HS6K08)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

CURRICULUM ALIGNMENT

YEAR 7

Digital Technologies

Define and decompose real world problems with design criteria and by creating user stories (AC9TDI8P04)
Evaluate existing and student solutions against the design criteria, user stories and possible future impact (AC9TDI8P10)
Analyse how properties of foods determine preparation and presentation techniques when designing solutions for healthy eating (AC9TDE8K05)
Select, justify and use suitable materials, components, tools, equipment, skills and processes to safely make designed solutions (AC9TDE8P03)
Acquire, store and validate data from a range of sources using software, including spreadsheets and databases (AC9TDI8P01)
Analyse and visualise data using a range of software, including spreadsheets and databases, to draw conclusions and make predictions by identifying trends (AC9TDI8P02)
Select and use a range of digital tools efficiently and responsibly to share content online, and plan and manage individual and collaborative agile projects (AC9TDI8P12)
Analyse how food and fibre are produced in managed environments and how these can become sustainable (AC9TDE8K04)

Science as a Human Endeavour

Examine how proposed scientific responses to contemporary issues may impact on society and explore ethical, environmental, social and economic considerations (AC9S7H03)
Explore the role of science communication in informing individual viewpoints and community policies and regulations (AC9S7H04)
Examine how proposed scientific responses to contemporary issues may impact on society and explore ethical, environmental, social and economic considerations (AC9S8H03)
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Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

CURRICULUM ALIGNMENT

YEAR 8

Digital Technologies

Define and decompose real world problems with design criteria and by creating user stories (AC9TDI8P04)
Evaluate existing and student solutions against the design criteria, user stories and possible future impact (AC9TDI8P10)
Analyse how properties of foods determine preparation and presentation techniques when designing solutions for healthy eating (AC9TDE8K05)
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Science as a Human Endeavour

Examine how proposed scientific responses to contemporary issues may impact on society and explore ethical, environmental, social and economic considerations (AC9S7H03)
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Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

Digital literacy

Literacy

CURRICULUM ALIGNMENT

YEAR 9

Design and Technologies

Analyse the impact of innovation, enterprise and emerging technologies on designed solutions for global preferred futures (AC9TDE10K02)
Analyse and make judgements on the ethical, secure and sustainable production and marketing of food and fibre enterprises (AC9TDE10K04)
Define and decompose real world problems with design criteria and by interviewing stakeholders to create user stories (AC9TDI10P04)
Evaluate existing and student solutions against the design criteria, user stories, possible future impact and opportunities for enterprise (AC9TDI10P10)
Use simple project management tools to plan and manage individual and collaborative agile projects, accounting for risks and responsibilities (AC9TDI10P12)

Science as a Human Endeavour

Explain how scientific knowledge is validated and refined, including the role of publication and peer review (AC9S9H01) / (AC9S10H01)
Examine how the values and needs of society influence the focus of scientific research (AC9S9H04) / (AC9S10H04)

Geography

The effects on environments of human alteration of biomes to produce food, industrial materials and fibres (AC9HG9K02)
The human-induced changes that challenge the sustainability of places and environments (AC9HG10K01)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

Digital literacy

Literacy

#2025EDU02

CURRICULUM ALIGNMENT

YEAR 10

Design and Technologies

Analyse the impact of innovation, enterprise and emerging technologies on designed solutions for global preferred futures (AC9TDE10K02)
Analyse and make judgements on the ethical, secure and sustainable production and marketing of food and fibre enterprises (AC9TDE10K04)
Define and decompose real world problems with design criteria and by interviewing stakeholders to create user stories (AC9TDI10P04)
Evaluate existing and student solutions against the design criteria, user stories, possible future impact and opportunities for enterprise (AC9TDI10P10)
Use simple project management tools to plan and manage individual and collaborative agile projects, accounting for risks and responsibilities (AC9TDI10P12)

Science as a Human Endeavour

Explain how scientific knowledge is validated and refined, including the role of publication and peer review (AC9S9H01) / (AC9S10H01)
Examine how the values and needs of society influence the focus of scientific research (AC9S9H04) / (AC9S10H04)

Geography

The effects on environments of human alteration of biomes to produce food, industrial materials and fibres (AC9HG9K02)
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Sustainability

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Digital literacy

Literacy

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CURRICULUM ALIGNMENT

SENIOR SECONDARY (YEARS 11 & 12)

Unit 1: Biodiversity and the interconnectedness of life

By the end of this unit, students:

- understand how classification helps to organise, analyse and communicate data about biodiversity
- understand that ecosystem diversity and dynamics can be described and compared with reference to biotic and abiotic components and their interactions
- understand how theories and models have developed based on evidence from multiple disciplines; and the uses and limitations of biological knowledge in a range of contexts
- use science inquiry skills to design, conduct, evaluate and communicate investigations into biodiversity and flows of matter and energy in a range of ecosystems
- evaluate, with reference to empirical evidence, claims about relationships between and within species, diversity of and within ecosystems, and energy and matter flows
- communicate biological understanding using qualitative and quantitative representations in appropriate modes and genres.

CLASSROOM RESOURCES

Looking After Hens and Chicks - Foundation - 2

This short video explores how John the farmer looks after the hens on his farm to produce delicious eggs for people all over Australia! Students will learn what hens and chicks need to stay healthy plus why eggs are so good for our bodies and a sneak peek into what happens on an egg farm. Consider using the Teachers Notes questions below the video to provoke student curiosity and encourage further thinking about the egg industry.
australianeggs.org.au/education/primary/looking-after-hens-and-chicks

Eggs-actly where do eggs come from? - Year 1

In this lesson students will learn to describe displays by identifying categories of animals and the quantity and appearance of their eggs. They will represent data relating to hens and eggs laid on farms in Australia.
australianeggs.org.au/education/primary/eggs-actly-where-do-the-eggs-we-eat-come-from

What's inside an egg? - Year 2

In this lesson students will identify the parts of an egg and the nutrients within. They will explore the different life stages of animals, such as the process of egg laying. Students will learn about how hens grow, change and have offspring similar to themselves. They will be able to determine the difference between unfertilised and fertilised eggs.
australianeggs.org.au/education/primary/its-gooey-but-what-is-actually-inside-an-egg

From Farm to Fridge - Year 3 - 4

Help your students understand what goes on behind the scenes at an Australian egg farm with this video featuring egg farmer John from Tasmania. Students will learn more about each stage of the farm to fridge journey, and who is involved in getting eggs from the hen to our houses, including how he implements quality control. Consider using the Teachers Notes questions below the video to provoke student curiosity and encourage further thinking about the egg industry.
australianeggs.org.au/education/primary/from-farm-to-fridge

CLASSROOM RESOURCES

To lay or not to lay? - Year 3

This lesson introduces the concept that living things can be grouped according to factors affecting reproduction. Students will predict physical and environmental variables connected to the reproductive output of a hen's unfertilised eggs.
australianeggs.org.au/education/primary/to-lay-or-not-to-lay-what-makes-a-hen-happy

Sustainable Egg Farms - Year 4

Every human activity affects the environment in some way. In this lesson, students will learn how Australian farmers work to create efficient and sustainable practices to ensure little impact upon their neighbours and the surrounding environment.
australianeggs.org.au/education/primary/sustainability-egg-farmers-are-doing-their-bit

A Day On The Farm: Farming Ethics & Farm Management - Year 5 - 6

Explore the Australian egg industry's place within our country's food production and management with Farmer John Sattler from Pure Foods, an egg farm in Tasmania. This video shows how farmers consider the welfare of their animals in their daily practices, and how farmers may use technologies to make their farming more efficient and sustainable. John talks about how he manages his farm while ensuring the best quality and value eggs possible for his consumers and how natural disasters might affect the way he makes decisions.
www.australianeggs.org.au/education/primary/farming-ethics-and-farm-management

The Big Egg Debate - Year 5

In this lesson students will review the three main types of commercial egg farm systems used throughout Australia. They will formulate arguments for and against each farming system and take part in a debate with their classmates.
https://www.australianeggs.org.au/education/primary/the-big-egg-debate

CLASSROOM RESOURCES

The Power of Choice. - Year 5

In this lesson students will be introduced to the three main types of commercial egg farming systems used throughout Australia. They will learn about the challenges surrounding supply and demand and the importance of understanding consumer choices.
australianeggs.org.au/education/primary/customer-choices-a-fit-for-everyone

What About Welfare? - Year 6

In this lesson students will understand how the growth and survival of a hen is affected by the physical conditions of its environment. They will gain knowledge of the ways in which egg farmers care for their hens and how the Government enforces strict guidelines to ensure the safety and wellbeing of egg laying hens.
australianeggs.org.au/education/primary/animal-welfare-what-it-is-all-about

CLASSROOM RESOURCES

Managing Egg Production Systems - Years 7 - 8

Students will learn about the different egg production systems within Australia and recognise examples of the management of animals through natural means and the use of chemicals. Students will also consider the importance of managing rations in egg production systems.
australianeggs.org.au/education/secondary/lesson-1-managing-egg-production-systems

Eggs, Technology, and Sustainability - Years 7 - 8

Students will learn about examples of significant technologies and sustainable approaches being used in Australian egg production systems. Students will understand how these technologies and techniques can improve different aspects and outcomes for the industry.
australianeggs.org.au/education/secondary/lesson-2-eggs-technology-and-sustainability

Who is Helping to Make Australian Eggs Sustainable? - Years 7 - 8

Students will engage in activities focused on different career opportunities within the Australian egg production industry. They will learn about different occupations, consider local, regional and global contributions, and learn how these careers create a sustainable industry in the future.
https://www.australianeggs.org.au/education/secondary/lesson-3-who-is-helping-to-make-australian-eggs-sustainable

The Egg - Years 7 - 8

Students will learn about the internal structures, nutritional qualities, and health benefits of eggs.
australianeggs.org.au/education/secondary/lesson-4-the-egg

Eggs for Breakfast - Years 7 - 8

Students will learn four simple ways that eggs can be prepared for breakfast and look at the similarities and differences of each preparation technique. This includes the ingredients and utensils used, safety precautions, plus nutrient value.
australianeggs.org.au/education/secondary/lesson-5-eggs-for-breakfast

Eggs Around the World - Years 7 - 8

Students will learn about the cuisines of different countries and cultures. They will examine the similarities and differences of ingredients and cooking methods in a culturally sensitive way, using discussion, research, and presentations, plus their own experiences with food.
australianeggs.org.au/education/secondary/lesson-6-eggs-around-the-world

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CLASSROOM RESOURCES

Egg Production and the Supply Chain - Years 9 - 10

Students will learn about the egg production supply chain from the farm to the fridge. They will understand the characteristics and features of the stages involved and learn how these are linked to efficient and sustainable farming systems.
https://www.australianeggs.org.au/education/secondary/lesson-1-egg-production-and-the-supply-chain

Creating a Sustainable Future - Years 9 - 10

Students learn about the use of production and digital technologies in the egg production industry to improve outcomes for all stakeholders. They will understand how technologies work to improve areas of production and why these outcomes are desirable or an improvement on past practices.
https://www.australianeggs.org.au/education/secondary/lesson-2-creating-a-sustainable-future-production-and-digital-technologies-in-the-egg-industry

Eggs, People and Animal Welfare - Years 9 - 10

Students learn about the stakeholders who ensure Australian eggs are produced ethically and sustainably. They will engage in various activities to observe the interactions and relationships between industry, producers, animals, and consumers.
https://www.australianeggs.org.au/education/secondary/lesson-3-eggs-people-and-animal-welfare

Eggs and Food Safety - Years 9 - 10

Students will learn about the differences between cooked and raw eggs and the importance of maintaining food safety on the farm and in the kitchen to prevent food-borne illness.
australianeggs.org.au/education/secondary/lesson-4

Enhancing Eggs - Years 9 - 10

Students will investigate the nutritional needs of adolescents, examine food preparation techniques and their impact on nutrient values. Sensory properties such as the flavour, appearance, texture, and aroma of food are also examined by investigating various ways of preparing scrambled eggs.
australianeggs.org.au/education/secondary/lesson-5-enhancing-eggs

Preservation and Presentation of Eggs - Years 9 - 10

To analyse and observe the sensory, functional, nutritional, and structural properties of eggs presented and preserved using different methods. To make judgements about the selection of different presentation and preservation methods of eggs for the design of healthy recipes and food products.
australianeggs.org.au/education/secondary/lesson-6-preservation-and-presentation-of-eggs

Ekka

ROYAL QUEENSLAND SHOW

DISCOVER QUEENSLAND'S BIGGEST CLASSROOM

Join schools from across the state bringing learning to life through the Ekka experience.

Scan here to get involved!

Ekka

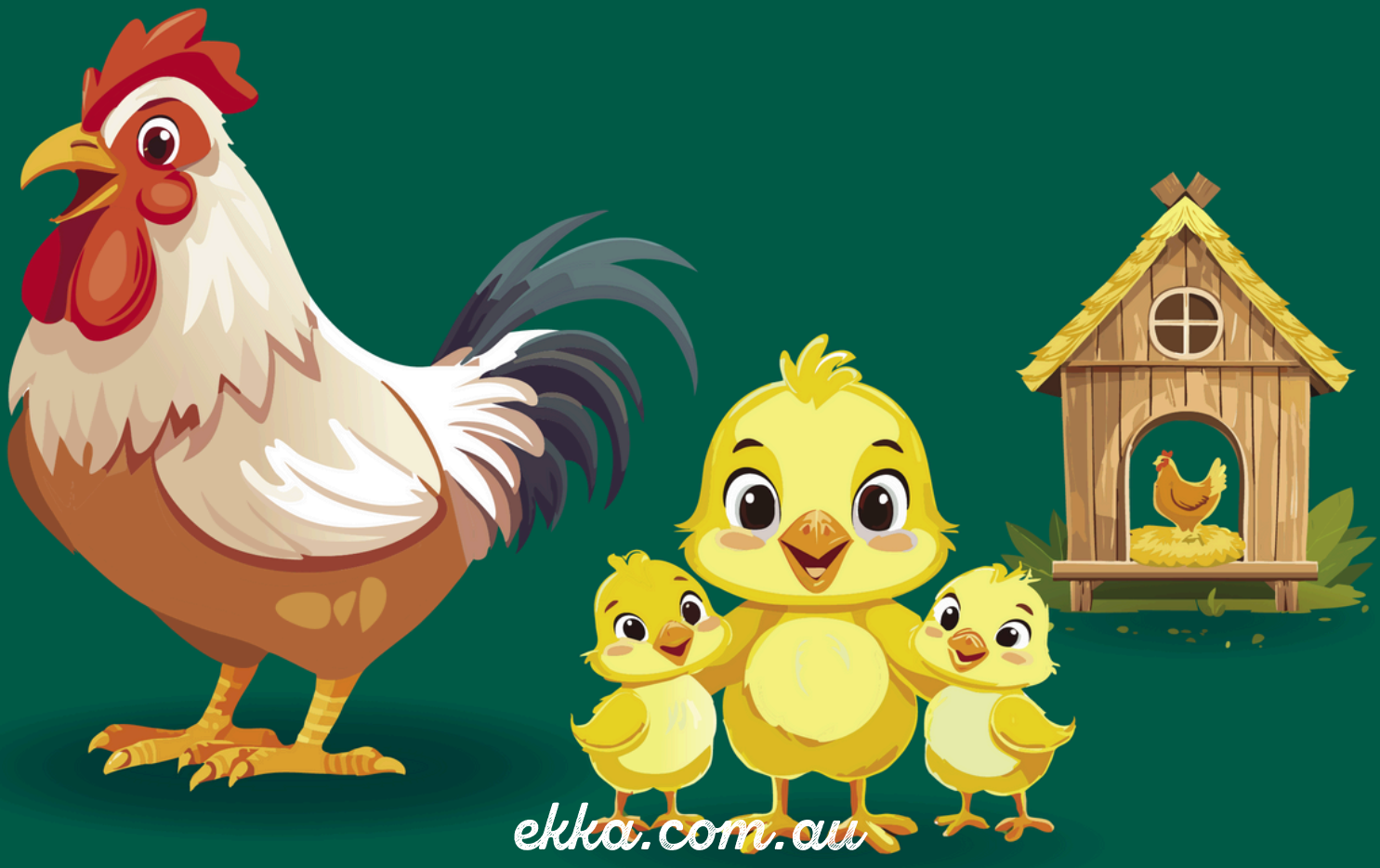
ROYAL QUEENSLAND SHOW

INTERNATIONAL AWARD WINNERS

The Royal Queensland Show (Ekka) is recognised for its excellence, over many years, by winning numerous awards at the International Fairs & Expos (IAFE) Awards.

IAFE has more than 1,000 members representing agricultural fairs from the United States, Canada, the United Kingdom, and Australia.

These awards represent the continued dedication the Ekka plays in bridging the country city divide, and educating the next generation on the essential role farming and agriculture plays in their everyday lives.



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