Ekka

ROYAL QUEENSLAND SHOW

CURRICULUM ALIGNMENT & CLASSROOM RESOURCES

EGGS



Foundation - 12

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OVERVIEW

Eggs!

In celebration of World Egg Day (9 October), we're recognising the important role eggs play in healthy diets, sustainable food production and helping young people understand where their food comes from.

Eggs are one of nature's most nutritious foods, providing high-quality protein and essential vitamins and minerals that support healthy growth and development. They also offer a valuable way to explore topics such as food production, agriculture, animal care, sustainability and nutrition in the classroom.

For students from Foundation to Senior Secondary, learning about the egg industry provides meaningful, real-world connections to the Australian Curriculum across science, technologies, health, and food and fibre production.



IMPORTANT CONTACTS

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)

Health & Physical Education

/dentify health symbols, messages and strategies in their community that support their health and safety (AC9HPFP06)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

Literacy





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)

Health & Physical Education

Investigate a range of health messages and practices in their community and discuss their purposes (AC9HP2P06)

Creative and critical thinking

Ethical understanding

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)

Health & Physical Education

Interpret the nature and intention of health information and messages, and reflect on how they influence personal decisions and behaviours (AC9HP4P09)
Investigate and apply behaviours that contribute to their own and others' health, safety, relationships and wellbeing (AC9HP4P10)

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)

Health & Physical Education

Interpret the nature and intention of health information and messages, and reflect on how they influence personal decisions and behaviours (AC9HP4P09)
Investigate and apply behaviours that contribute to their own and others' health, safety, relationships and wellbeing (AC9HP4P10)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

Literacy





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)

Health & Physical Education

Interpret the nature and intention of health information and messages, and reflect on how they influence personal decisions and behaviours (AC9HP4P09)
Investigate and apply behaviours that contribute to their own and others' health, safety, relationships and wellbeing (AC9HP4P10)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

Literacy





CURRICULUM ALIGNMENT

YEAR 5

Humanities and Social Sciences

Locate, collect and organise information and data from primary and secondary sources in a range of formats (AC9HS5S02)
Propose actions or responses to issues or challenges and use criteria to assess the possible effects (AC9HS5S06)
Types of resources, including natural, human and capital, and how they satisfy needs and wants (AC9HS5K08)

Health & Physical Education

Investigate different sources and types of health information and how these apply to their own and others' health choices (AC9HP6P09)
Analyse how behaviours influence the health, safety, relationships and wellbeing of individuals and communities (AC9HP6P10)

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)

Health & Physical Education

Investigate different sources and types of health information and how these apply to their own and others' health choices (AC9HP6P09)

Analyse how behaviours influence the health, safety, relationships and wellbeing of individuals and communities (AC9HP6P10)

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)
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Explore the role of science communication in informing individual viewpoints and community policies and regulations (AC9S8H04)

Health & Physical Education

Plan and implement strategies, using health resources, to enhance their own and others' health, safety, relationships and wellbeing (AC9HP8P10)

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)
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)
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Health & Physical Education

Plan and implement strategies, using health resources, to enhance their own and others' health, safety, relationships and wellbeing (AC9HP8P10)

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)

Health & Physical Education

Critique health information, services and media messaging about relationships, lifestyle choices, health decisions and behaviours to evaluate their influence on individual attitudes and actions (AC9HP10P09)
Plan, justify and critique strategies to enhance their own and others' health, safety, relationships and wellbeing (AC9HP10P10)

Creative and critical thinking

Ethical understanding

Numeracy

Sustainability

Personal and social capability

Digital literacy

Literacy





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)
The human-induced changes that challenge the sustainability of places and environments (AC9HG10K01)

Health & Physical Education

Critique health information, services and media messaging about relationships, lifestyle choices, health decisions and behaviours to evaluate their influence on individual attitudes and actions (AC9HP10P09)
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CURRICULUM ALIGNMENT

SENIOR SECONDARY (YEARS 11 & 12)

Unit 3: Biodiversity and the interconnectedness of life

In Unit 3, students explore the ways biology is used to describe and explain: the biodiversity within ecosystems; a range of biotic and abiotic components; species interactions; adaptations of organisms to their environment; principles of population dynamics; and how classification systems are used to identify organisms and aid scientific communication. An understanding of the structure of ecosystems, the processes involved in the movement of energy and matter in ecosystems and how environmental factors limit populations is essential to appreciate the dynamics, diversity and underlying unity of these systems. Students investigate the interactions within and between species, and the interactions between abiotic and biotic components of ecosystems. They also investigate how measurements of abiotic factors, population numbers, species diversity and descriptions of interactions between species can form the basis for spatial and temporal comparisons between ecosystems. They examine and analyse data collected from fieldwork to understand the interconnectedness of organisms, the physical environment and the impact of human activity.

Contexts that could be investigated in this unit include the local ecosystem; fishing and mining industries; habitat destruction; and ecosystem management systems. Through investigating these contexts, students may explore the impact of human activity on biodiversity, and sustainability of practices.

Participation in a range of experiments and investigations will allow students to progressively develop their suite of science inquiry skills while gaining an enhanced appreciation of how scientific knowledge is used to offer valid explanations and reliable predictions, and the ways in which scientific knowledge interacts with social, economic, cultural and ethical factors. Collaborative experimental work also helps students to develop communication, interaction, character and management skills.

Throughout the unit, students develop skills in sampling ecological systems, organising and analysing data and developing ecological models to describe and explain the diversity and interconnectedness of life on Earth.

Unit objectives

1. Describe ideas and findings about biodiversity and populations, and functioning ecosystems
2. and succession.
3. Apply understanding of biodiversity and populations, and functioning ecosystems and
4. succession.
5. Analyse data about biodiversity and populations, and functioning ecosystems and
6. succession.
7. Interpret evidence about biodiversity and populations, and functioning ecosystems and
8. succession.
9. Evaluate processes, claims and conclusions about biodiversity and populations, and
10. functioning ecosystems and succession.
11. Investigate phenomena associated with biodiversity and populations, and functioning ecosystems and succession.





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



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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