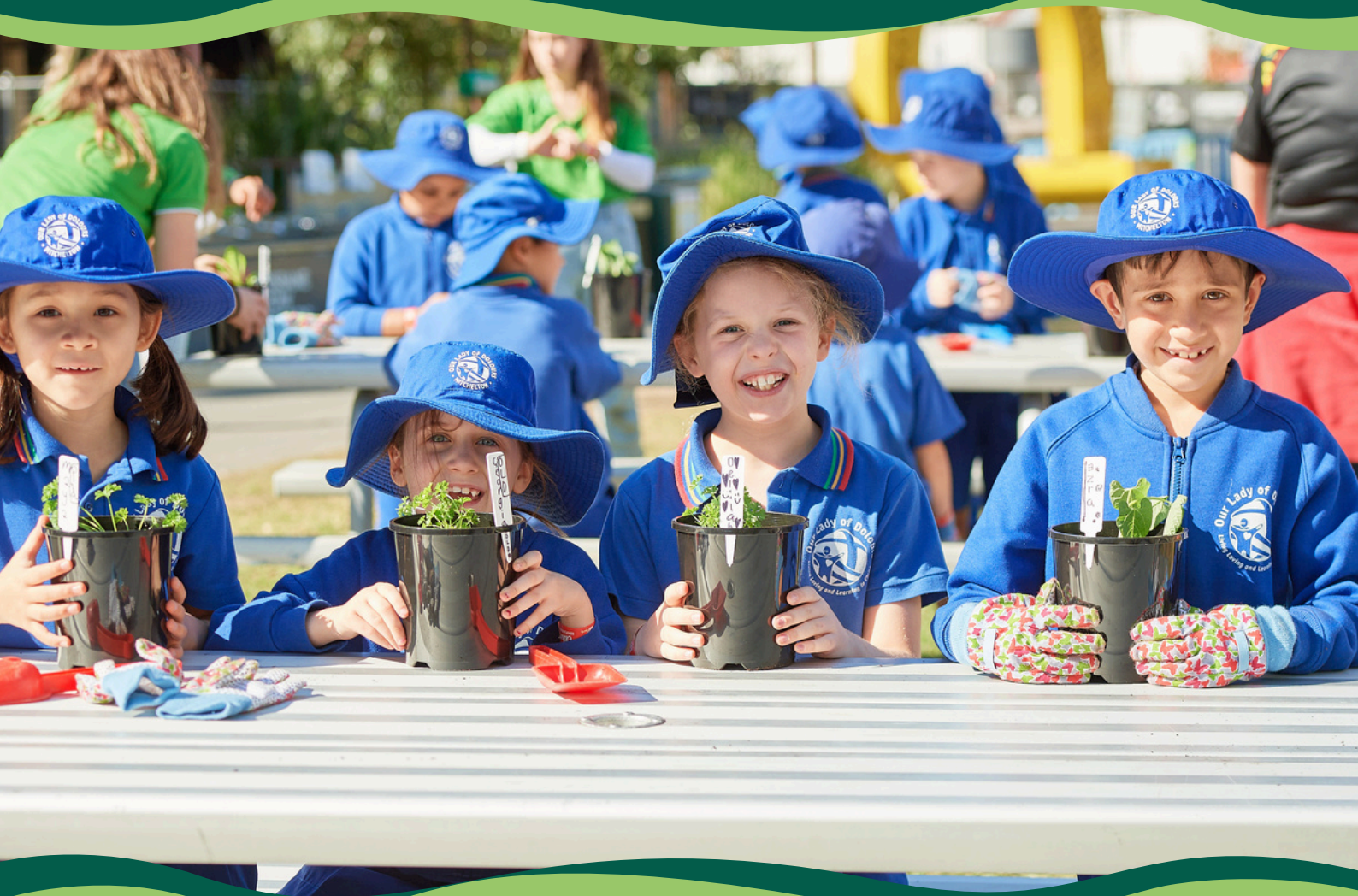
Ekka
EDUCATION

CURRICULUM ALIGNMENT & CLASSROOM RESOURCES

2025 RURAL DISCOVERY DAY

Brisbane Showgrounds - Home of the Ekka



FOUNDATION TO 6

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TABLE OF CONTENTS

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EXCURSION OVERVIEW

A world of discovery awaits students at Rural Discovery Day!

The engaging, educational program brings the country to the city to teach primary school students that food and fibre comes from farms, not shopping centres, by guiding them through six immersive agricultural activities, linked to the Australian curriculum.

This exciting hands-on day will see students go through an amazing sensory experience as they touch and taste their way through informative interactive sessions.

RURAL DISCOVERY DAY SESSIONS

*Activities are subject to change

Animal Nursery - Sheep & Lamb Interaction
Scarecrow Making
Dairy - Milking & Cream Production
Grain - Harvest to Home
Worm - Composting
Water Conservation - Farming

Lunchtime Entertainment to be confirmed

IMPORTANT DATES

Expressions of Interest Now Open
Expressions of Interest Close: Friday 31 Janurary
Rural Discovery Day Excursions: 19 - 23 May 2025

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DOCUMENT INFORMATION

These resources are purpose built for students in Foundation to Grade 6, who attend Rural Discovery Day excursions to encourage pre- and post-excursion learning.

Each session at Rural Discovery Day has corresponding videos, activities and worksheets for teachers and students from agricultural industry experts that highlight the value of exploring agriculture in the classroom. The included links provide teachers with direct access to numerous learning opportunities, all with curriculum alignment and grade accessibility information. The resources supplied have both digital and hands-on materials for students to build connections between the importance of food and fibre and their everyday lives.

IMPORTANT CONTACTS

Rural Discovery Day Enquiries

balexander@rna.org.au

Education Content Enquiries

education@ekka.com.au

Ekka School & Group Bookings Enquiries

groupbookings@ekka.com.au

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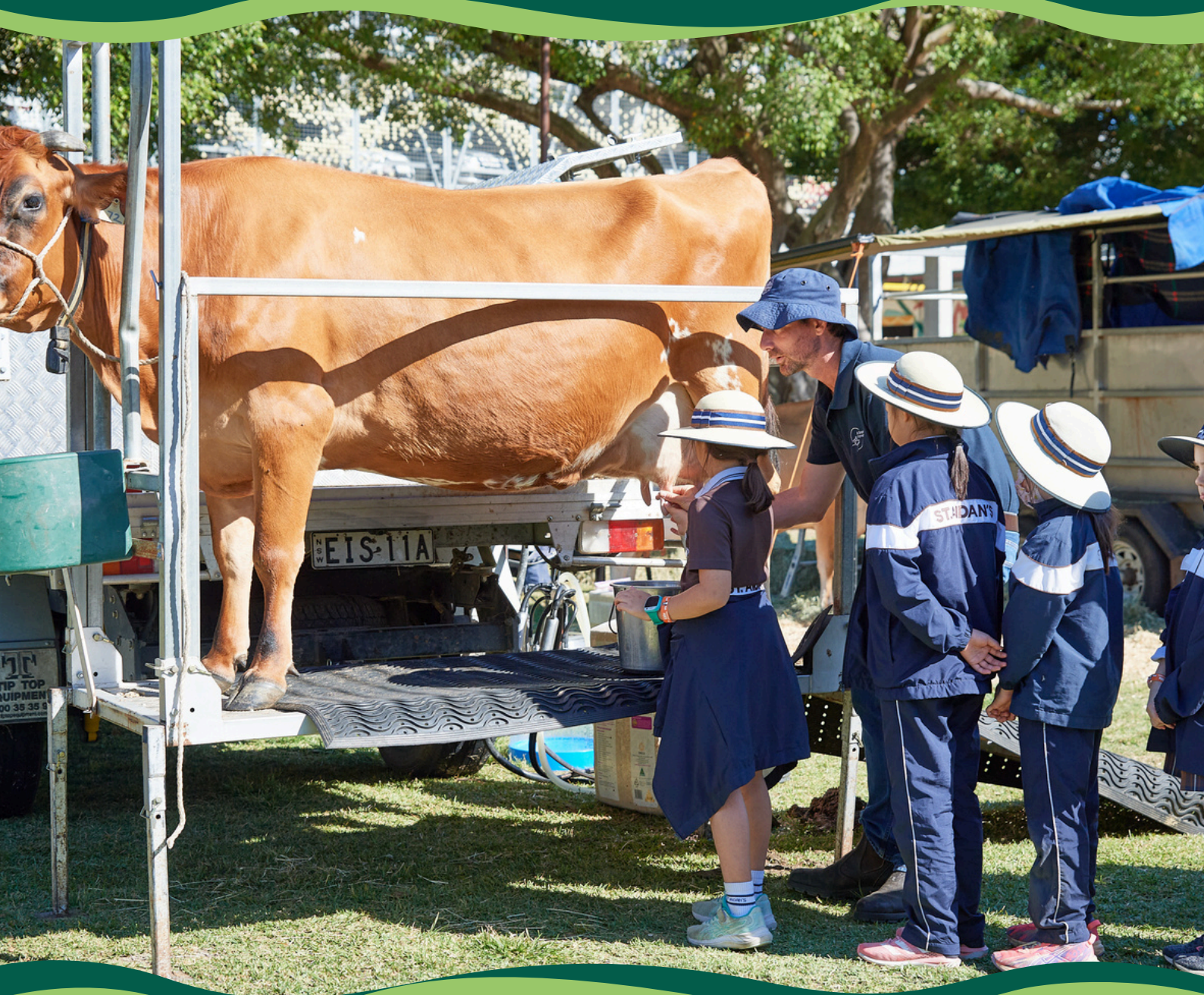
CURRICULUM ALIGNMENT

The following pages identify the links to Version 8.4 and Version 9 of the Australian Curriculum, as well as the relevant General Capabilities and Cross-curricular Priorities.



SCIENCE CURRICULUM LINKS

SCIENCE ALIGNMENT TO RURAL DISCOVERY DAY

The Sheep Interaction Session identifies animals you can have on a farm, their role in agriculture as well as future careers working and caring for animals in agriculture.

The Scarecrow Making Session introduces students to ecological concepts, such as pest control and biodiversity. Students will explore how scarecrows help manage pests in farming, linking to broader environmental science topics like sustainable agriculture and the role of natural solutions in crop protection.

The Dairy - Milking & Cream Production Session will explore the ruminant digestive systems of cows and the importance of pasteurisation. Students will also have the opportunity to hand milk a dairy cow.

The Grain - Harvest to Home Session takes students through the production cycle of grains, from wheat grains to bread. Students will learn about how grains are grown, what different products can be produced from grains. They will also have the opportunity to mill some grain.

The Worm Composting Session will enable students to investigate the biological processes involved in vermicomposting, examining how worms break down organic matter and enhance soil fertility.

The Water Conservation and Farming Session engages students in hands-on experiments that highlight the importance of water in ecosystems and plant growth, fostering scientific inquiry and observation skills.

AIMS FOR STUDENTS TO DEVELOP

- An interest in science as a way of expanding their curiosity and willingness to explore, ask questions about and speculate on the changing world they live in.
- An ability to solve problems and make informed decisions about current and future uses of science while taking into account ethical, environmental, social and economic implications of decisions.
- An understanding of the dynamic nature of science knowledge including historical and global contributions, and an understanding of the relationship between science and society including the diversity of science careers.

***AIMS SOURCED FROM AUSTRALIAN CURRICULUM**

SCIENCE CURRICULUM LINKS

FOUNDATION

VERSION 8.4

Science as a Human Endeavour: Nature and Development of Science

Science involves observing, asking questions about, and describing changes in objects and events (ACSHE013)

Science Inquiry Skills: Planning and Conducting

Participate in guided investigations to explore and answer questions (ACSIS011)

VERSION 9

Science as a Human Endeavour: Use and influence of science

Explore the ways people make and use observations and questions to learn about the natural world (AC9SFH01)

Science Inquiry Skills: Planning and Conducting

Engage in investigations safely and make observations using their senses (AC9SFI02)

GRADE ONE

VERSION 8.4

Science Understanding: Biological Sciences

Living things have a variety of external features (ACSSU017)

Science as a Human Endeavour: Use and Influence of Science

People use science in their daily lives, including when caring for their environment and living things (ACSHE022)

VERSION 9

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 as a Human Endeavour: Use and Influence of Science

Describe how people use science in their daily lives, including using patterns to make scientific predictions (AC9S1H01)

SCIENCE CURRICULUM LINKS

GRADE TWO

VERSION 8.4

Science as a Human Endeavour: Use and Influence of Science

People use science in their daily lives, including when caring for their environment and living things (ACSHE035)

Science Inquiry Skills: Planning and Conducting

Participate in guided investigations to explore and answer questions (ACSIS038)

VERSION 9

Science as a Human Endeavour: Use and Influence of Science

Describe how people use science in their daily lives, including using patterns to make scientific predictions (AC9S2H01)

Science Inquiry Skills: Planning and Conducting

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

GRADE THREE

VERSION 8.4

Science Understanding: Biological Sciences

Living things can be grouped on the basis of observable features and can be distinguished from non-living things (ACSSU044)

Science as a Human Endeavour: Use and Influence of Science

Science knowledge helps people to understand the effect of their actions (ACSHE051)

VERSION 9

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 as a Human Endeavour: Use and Influence of Science

Consider how people use scientific explanations to meet a need or solve a problem (AC9S3H02)

SCIENCE CURRICULUM LINKS

GRADE FOUR

VERSION 8.4

Science Understanding: Biological Sciences

Living things depend on each other and the environment to survive (ACSSU073)

Science as a Human Endeavour: Use and Influence of Science

Science knowledge helps people to understand the effect of their actions (ACSHE062)

VERSION 9

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)

Science as a Human Endeavour: Use and Influence of Science

Consider how people use scientific explanations to meet a need or solve a problem (AC9S4H02)

GRADE FIVE

VERSION 8.4

Science Understanding: Biological Sciences

Living things have structural features and adaptations that help them to survive in their environment (ACSSU043)

Science as a Human Endeavour: Use and Influence of Science

Scientific knowledge is used to solve problems and inform personal and community decisions (ACSHE083)

VERSION 9

Science Understanding: Biological Sciences

Examine how particular structural features and behaviours of living things enable their survival in specific habitats (AC9S5U01)

Science as a Human Endeavour: Use and Influence of Science

Investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions (AC9S5H02)

SCIENCE CURRICULUM LINKS

GRADE SIX

VERSION 8.4

Science Understanding: Biological Sciences

The growth and survival of living things are affected by physical conditions of their environment (ACSSU094)

Science as a Human Endeavour: Use and Influence of Science

Scientific knowledge is used to solve problems and inform personal and community decisions (ACSHE100)

VERSION 9

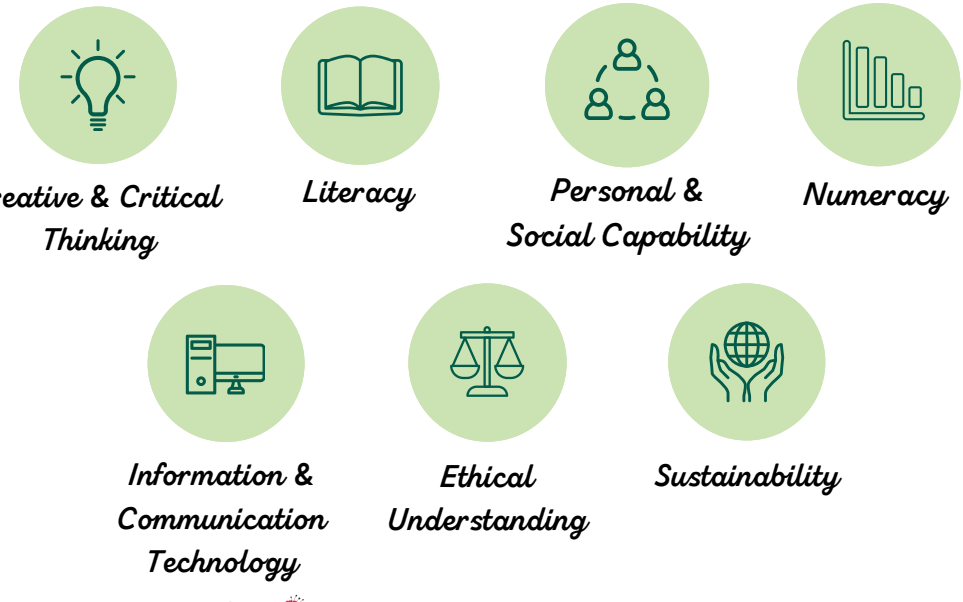
Science Understanding: Biological Sciences

Investigate the physical conditions of a habitat and analyse how the growth and survival of living things is affected by changing physical conditions (AC9SU01)

Science as a Human Endeavour: Use and Influence of Science

Investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions (AC9S6H02)

GENERAL CAPABILITIES & CROSS CURRICULUM PRIORITIES



DESIGN AND TECHNOLOGIES CURRICULUM LINKS

ALIGNMENT TO RURAL DISCOVERY DAY

The Scarecrow Making Session engages students in hands-on design, creating scarecrows using sustainable materials. They will apply problem-solving and creative thinking to construct functional designs, learning about material properties, construction techniques, and the environmental impact of their choices.

The Dairy - Milking & Cream Production Session demonstrates the significance of developments within agricultural technology such as machine milking which assists in producing enough milk for all Australians. Students will also explore food and fibre technology by making different milk-based products with milk straight from the dairy cow.

The Grain - Harvest to Home Session takes students through the production cycle of grains, types of grains, the environments in which they're grown, and their uses. Students will understand the source of the food and product that is supplied to us by grain growers.

The Worm - Composting Session will allow students to design and create their own composting systems, incorporating sustainable materials and methods to facilitate effective worm composting at home or in the school garden.

The Water Conservation - Farming Session allows students to design and implement sustainable gardening practices, including planting their own pineapple stalks, which emphasises practical problem-solving and environmental stewardship.

AIMS FOR STUDENTS TO DEVELOP

- Investigate, generate, iterate and analyse ethical and innovative designed solutions for sustainable futures
- Understand the roles and responsibilities of people in design and technologies occupations and how they contribute to society
- Engage confidently with and responsibly select and manipulate appropriate technologies – tools, equipment, processes, materials, data, systems and components – when designing and creating solutions

*AIMS SOURCED FROM AUSTRALIAN CURRICULUM

DESIGN AND TECHNOLOGIES CURRICULUM LINKS

RELEVANT SUSTAINABILITY CROSS-CURRICULAR PRIORITIES

- The role of world views (sets of attitudes, values and beliefs) that shape individual and community ideas about how the world works and our role in the world
- The role of innovation and creativity in sustainably designed solutions, including products, environments and services, that aim to reduce present and future impacts or to restore the health or diversity of environmental, social and economic systems
- Ways of thinking and acting that seek to empower young people to design action that will lead to an equitable, sustainable and inclusive future

AIMS SOURCED FROM AUSTRALIAN CURRICULUM

FOUNDATION TO YEAR TWO

VERSION 8.4

Design and Technologies: Knowledge and Understanding

Identify how people design and produce familiar products, services and environments and consider sustainability to meet personal and local community needs (ACTDEK001)

Explore how plants and animals are grown for food, clothing and shelter and how food is selected and prepared for healthy eating (ACTDEK003)

VERSION 9 (FOUNDATION)

Design and Technologies: Knowledge and Understanding – Technologies and Society

Explore how familiar products, services and environments are designed by people (AC9TDEFK01)

VERSION 9 (GRADE 1 TO 2)

Design and Technologies: Knowledge and Understanding – Technologies and Society

Identify how familiar products, services and environments are designed and produced by people to meet personal or local community needs and sustainability (AC9TDE2K01)

Design and Technologies: Knowledge and Understanding – Food and Fibre Production

Explore how plants and animals are grown for food, clothing and shelter (AC9TDE2K03)

DESIGN AND TECHNOLOGIES CURRICULUM LINKS

GRADE THREE & FOUR

VERSION 8.4

Design and Technologies: Knowledge and Understanding

Recognise the role of people in design and technologies occupations and explore factors, including sustainability that impact on the design of products, services and environments to meet community needs (ACTDEK010)

Investigate food and fibre production and food technologies used in modern and traditional societies (ACTDEK012)

VERSION 9

Design and Technologies: Knowledge and Understanding – Technologies and Society

Examine design and technologies occupations and factors including sustainability that impact on the design of products, services and environments to meet community needs (AC9TDE4K01)

Design and Technologies: Knowledge and Understanding - Food and Fibre Production

Describe the ways of producing food and fibre (AC9TDE4K03)

DESIGN AND TECHNOLOGIES CURRICULUM LINKS

GRADE FIVE AND SIX

VERSION 8.4

Design and Technologies: Knowledge and Understanding

Examine how people in design and technologies occupations address competing considerations, including sustainability in the design of products, services and environments for current and future use (ACTDEK019)

Investigate how and why food and fibre are produced in managed environments and prepared to enable people to grow and be healthy (ACTDEK021)

VERSION 9

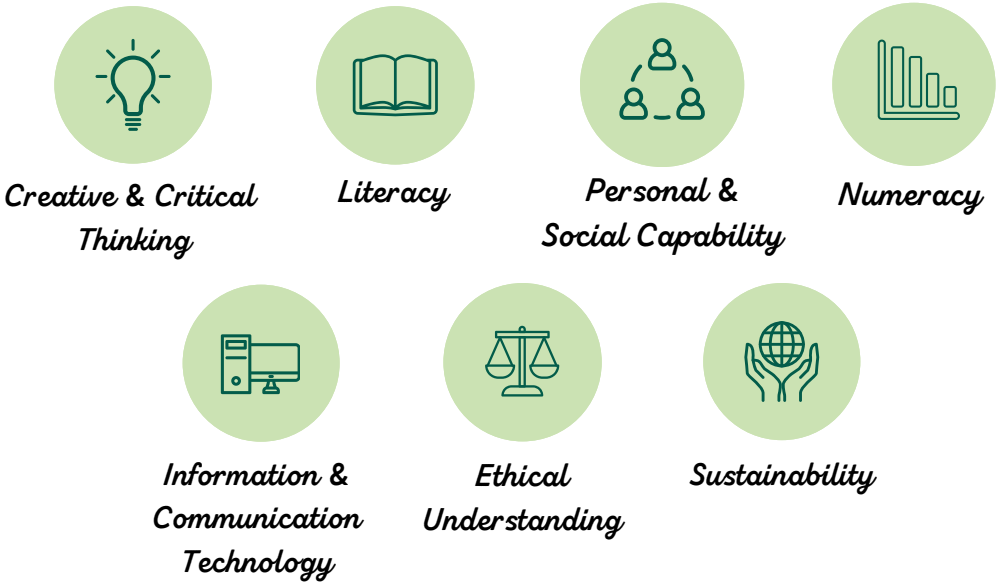
Design and Technologies: Knowledge and Understanding – Technologies and Society

Explain how people in design and technologies occupations consider competing factors including sustainability in the design of products, services and environments (AC9TDE6K01)

Design and Technologies: Knowledge and Understanding – Food and Fibre Production

Explain how and why food and fibre are produced in managed environments (AC9TDE6K03)

GENERAL CAPABILITIES & CROSS CURRICULUM PRIORITIES



HUMANITIES AND SOCIAL SCIENCES CURRICULUM LINKS

ALIGNMENT TO RURAL DISCOVERY DAY

The Sheep Interaction Session connects students with rural traditions by exploring the historical and cultural significance of sheep farming, its role in sustainable agriculture, and the socio-economic impact of wool production on rural communities.

The Scarecrow Making Session explores the cultural and historical significance of scarecrows in farming, connecting students to rural traditions and local agricultural practices. Students will examine how scarecrows protect crops and contribute to the socio-economic life of farming communities, fostering an understanding of rural heritage and community resilience.

The Dairy - Milking & Cream Session allows students to engage with the cultural and economic importance of dairy farming in rural communities, examining how dairy products shape local economies, food security, and the traditions of farming families.

The Grain - Harvest to Home Session will identify the importance of specific grains as a historically important crop harvested throughout Queensland and Australia.

The Worm - Composting Session will encourage students to explore the environmental impact of composting, discussing its role in sustainable agriculture and the importance of reducing waste in their communities.

The Water Conservation - Farming Session encourages students to explore the origins of food and the cultural significance of farming, fostering an understanding of community and environmental responsibility.

AIMS FOR STUDENTS TO DEVELOP

- An understanding and appreciation of historical developments, geographic phenomena, civic values and economic factors that shape society, influence sustainability and create a sense of belonging
- The capacity to use disciplinary skills, including disciplinary-appropriate questioning, researching using reliable sources, analysing, evaluating and communicating
- Dispositions required for effective participation in everyday life, now and in the future, including the ability to problem-solve critically and creatively, make informed decisions, be a responsible and active citizen, make informed economic and financial choices, and reflect on ethics

AIMS SOURCED FROM AUSTRALIAN CURRICULUM

HUMANITIES AND SOCIAL SCIENCES CURRICULUM LINKS

FOUNDATION

VERSION 8.4

Humanities and Social Sciences: Geography

The places people live in and belong to, their familiar features and why they are important to people (ACHASSK015)

Reflect on learning to propose how to care for places and sites that are important or significant (ACHASSI009)

VERSION 9

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)

GRADE ONE

VERSION 8.4

Humanities and Social Sciences: Geography

The natural, managed and constructed features of places, their location, how they change and how they can be cared for (ACHASSK031)

Reflect on learning to propose how to care for places and sites that are important or significant (ACHASSI026)

VERSION 9

Humanities and Social Sciences: Geography

The natural, managed and constructed features of local places, and their location (AC9HS1K03)

HUMANITIES AND SOCIAL SCIENCES CURRICULUM LINKS

GRADE TWO

VERSION 8.4

Humanities and Social Sciences: Geography

The connections of people in Australia to people in other places in Australia and across the world (ACHASSK050)

Reflect on learning to propose how to care for places and sites that are important or significant (ACHASSI026)

VERSION 9

Humanities and Social Sciences: Geography

How places can be spatially represented in geographical divisions from local to regional to state/territory, and how people and places are interconnected across those scales (AC9HS2K03)

GRADE THREE

VERSION 8.4

Humanities and Social Sciences: Geography

The similarities and differences between places in terms of their type of settlement, demographic characteristics and the lives of the people who live there, and people's perceptions of these places (ACHASSK069)

The main climate types of the world and the similarities and differences between the climates of different places (ACHASSK068)

VERSION 9

Humanities and Social Sciences: Geography

The similarities and differences between places in Australia and neighbouring countries in terms of their natural, managed and constructed features (AC9HS3K05)

HUMANITIES AND SOCIAL SCIENCES CURRICULUM LINKS

GRADE FOUR

VERSION 8.4

Humanities and Social Sciences: Geography

The importance of environments, including natural vegetation, to animals and people (ACHASSK088)

The use and management of natural resources and waste, and the different views on how to do this sustainably (ACHASSK090)

VERSION 9

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)

GRADE FIVE

VERSION 8.4

Humanities and Social Sciences: Geography

The environmental and human influences on the location and characteristics of a place and the management of spaces within them (ACHASSK113)

Humanities and Social Sciences: Economics and Business

Types of resources (natural, human, capital) and the ways societies use them to satisfy the needs and wants of present and future generations (ACHASSK120)

VERSION 9

Humanities and Social Sciences: Geography

The management of Australian environments, including managing severe weather events such as bushfires, floods, droughts or cyclones, and their consequences (AC9HS5K05)

HUMANITIES AND SOCIAL SCIENCES CURRICULUM LINKS

GRADE SIX

VERSION 8.4

Humanities and Social Sciences: Geography

The effects that people's connections with, and proximity to, places throughout the world have on shaping their awareness and opinion of those places (ACHGK036)

Humanities and Social Sciences: Economics and Business

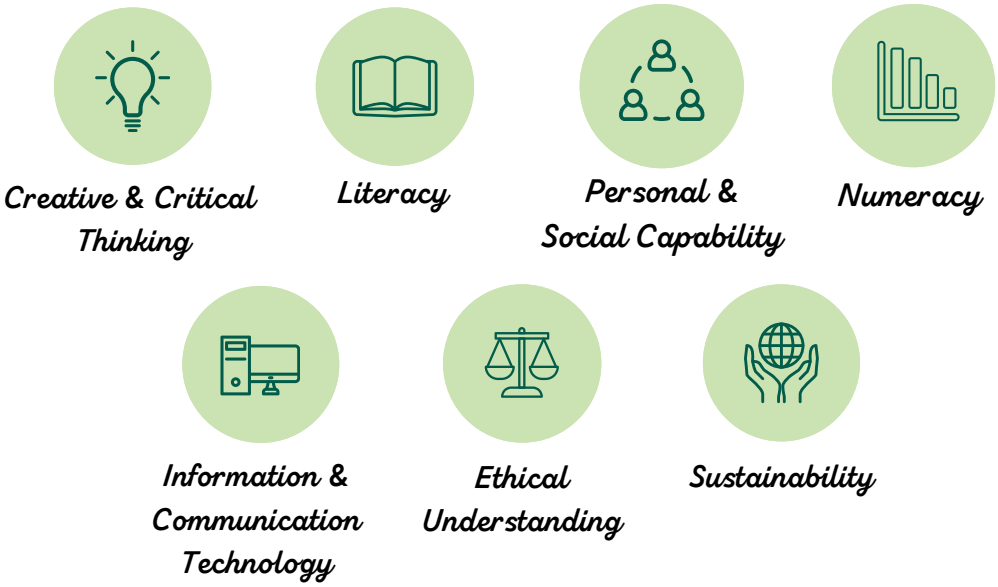
How the concept of opportunity cost involves choices about the alternative use of resources and the need to consider trade-offs (ACHASSK149)

VERSION 9

Humanities and Social Sciences: Geography

The geographical diversity and location of places in the Asia region, and its location in relation to Australia (AC9HS6K04)

GENERAL CAPABILITIES & CROSS CURRICULUM PRIORITIES



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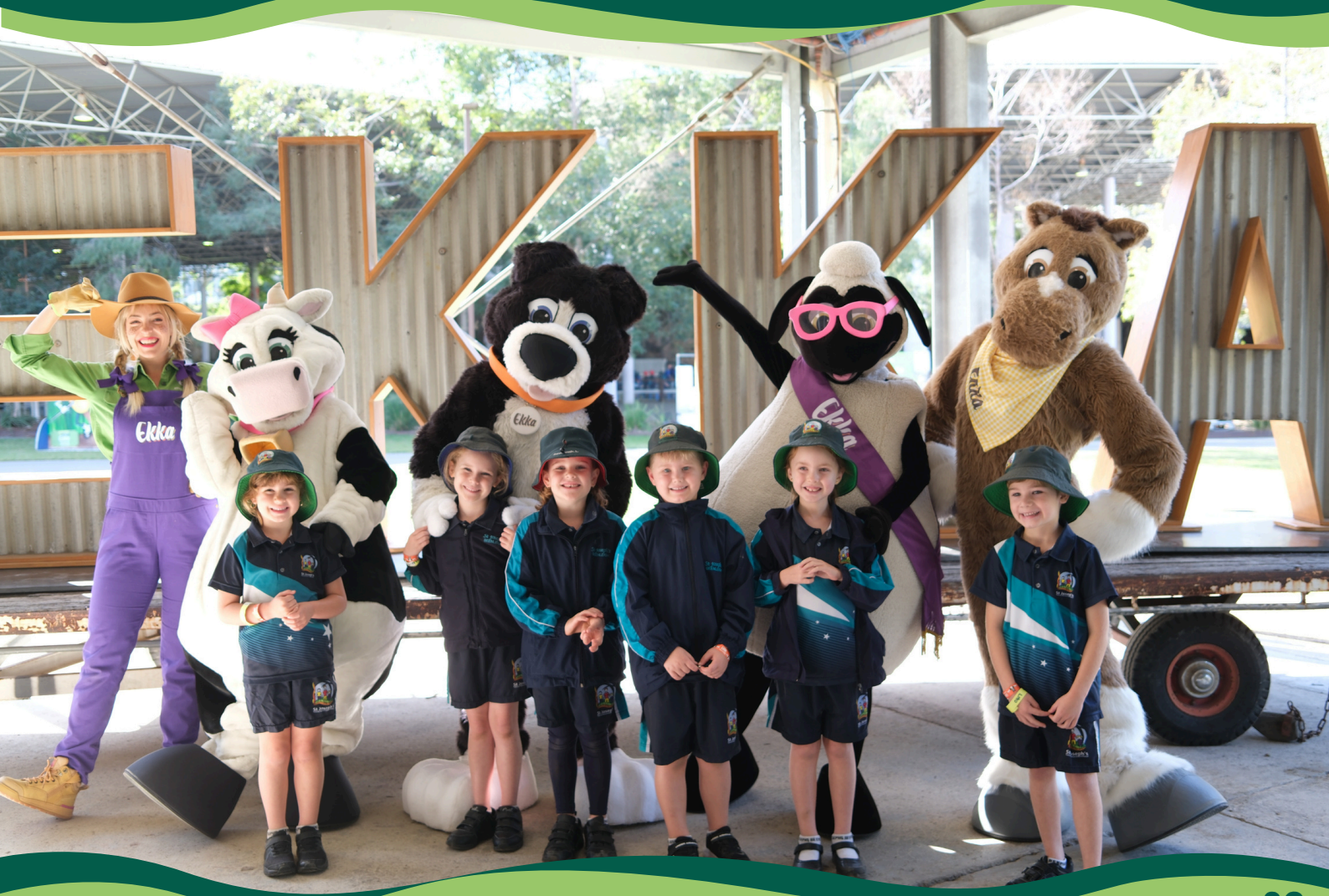
CLASSROOM RESOURCES

The following pages include pre-excursion and post-excursion classroom resources that should be used to enhance the learning outcomes for your students.

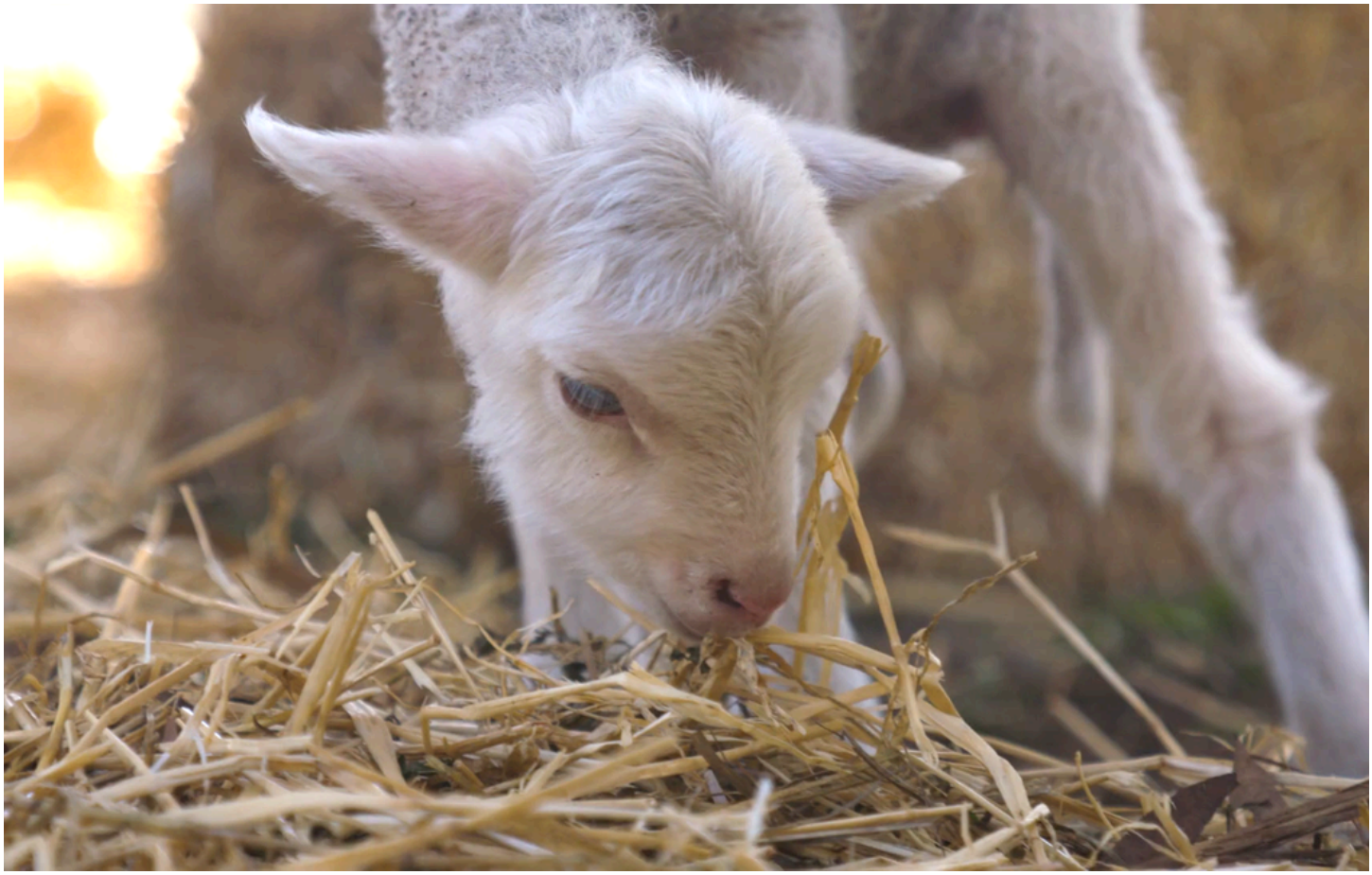


SHEEP INTERACTION

PRE-EXCURSION VIDEO

Meet a Lamb / Ekka Animal Nursery w/ Laurel Edwards

Join Laurel Edwards as she sits down for a chat with Farmer James about cute and cuddly lambs in the Animal Nursery. https://www.youtube.com/watch?v=PivC_zFKiFQ



POST-EXCURSION ACTIVITIES

ABC Education: Pet Superstars – Accessible for all ages

Meet Larissa and her guinea pig called 'Superstar'. Learn how Larissa cares for her guinea pig pets and what her dream is. https://www.abc.net.au/education/pet-superstars-guinea-pig-superstar/13822884

SHEEP INTERACTION

Junior Landcare: What's happening in the habitat? – Grade 1 to 2

We're going to identify animals in their habitats by exploring either your backyard, schoolyard, a local park or some other natural place. Investigate your surroundings to see which animals are sharing the local habitat with you. Use the field guide to help you identify animals in your community.
https://juniorlandcare.org.au/learning_activity/whats-happening-in-the-habitat/

Junior Landcare: Creating a habitat – Grade 3 to 8

Monitoring and care helps provide an understanding of how your garden grows. What does it need to be healthy, to support growth, and be a native habitat?
https://juniorlandcare.org.au/learning_activity/creating-a-wildlife-habitat-monitoring-and-care/

ABC Education: GOAT Maths – 5 different games to be accessible for all ages

ABC Education has a new, fun and exciting way for primary students to practise and extend their mathematical thinking and skills. The GOAT Maths games are perfect for teacher-guided group play, allowing students to play as a class or in small groups as they explore and discuss the maths and the antics of loveable goats.

https://www.abc.net.au/education/these-maths-games-are-the-greatest-of-all-time/101946832

Australian Good Meat: Teaching Resources – Accessible for all ages

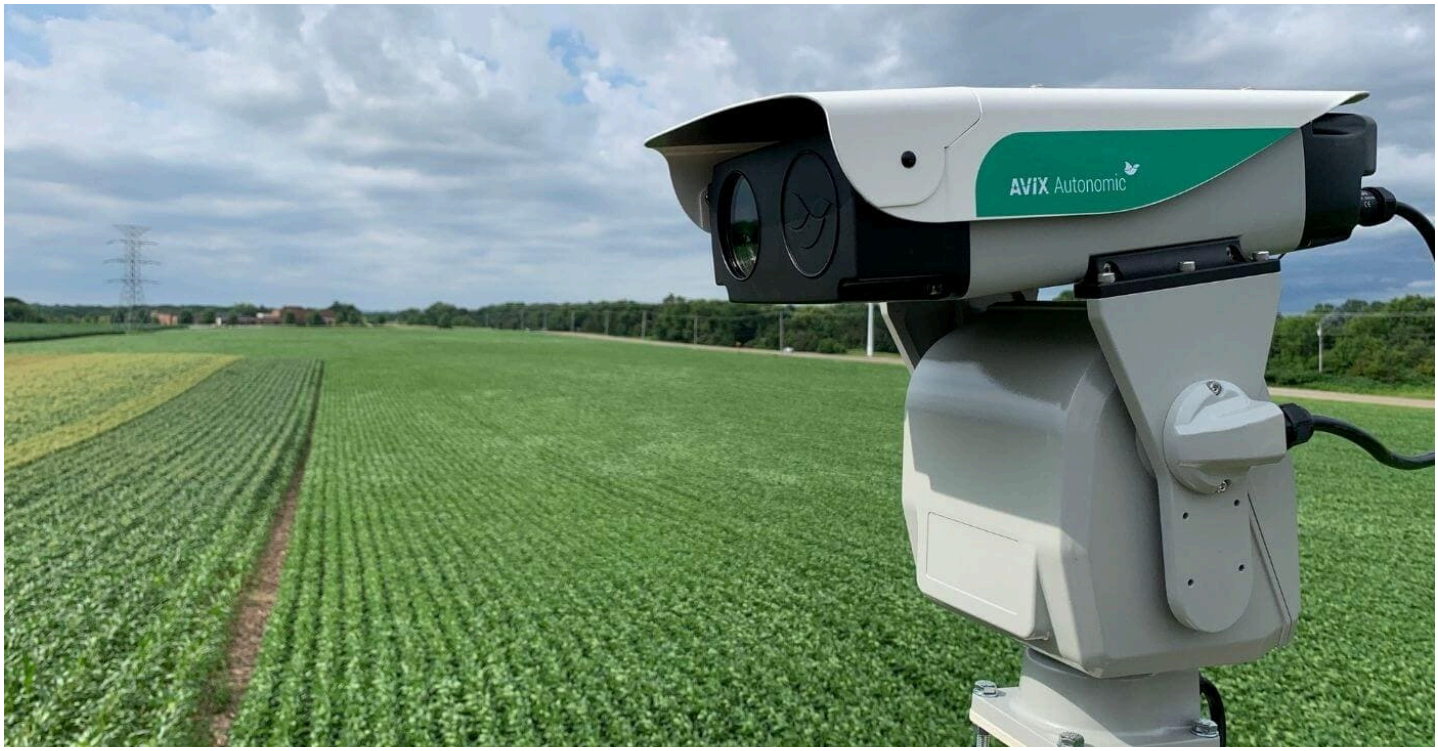
Developed in collaboration with the Primary Industries Education Foundation Australia, each year band lesson suite includes an overview, six lessons, student activities and a teacher instructional video. There's also a range of fun and educational supplementary materials for use in the classroom.
https://www.goodmeat.com.au/educational-resources/resources/

SCARECROW MAKING

PRE-EXCURSION VIDEO

Bird Control Group / Laser bird deterrent helps an Australian grower reduce bird presence by up to 90% - Modern Day Scarecrow

For centuries, farmers have relied on scarecrows to keep birds away from their crops. While they may of worked in the past, the effectiveness of scarecrows was limited and inconsistent. Today technology has transformed how farmers protect their fields. This video explores how lasers are replacing scarecrows and revolutionising bird control in agriculture, making it more efficient and effective than ever before.
https://www.youtube.com/watch?v=Ka-7AcC0rvs



POST-EXCURSION ACTIVITIES

NSW Department of Education / Scarecrow Dancing

Exploring dance through scarecrow images and movements. Engage in creative play and create simple images.
https://app.education.nsw.gov.au/rap/resource/access/65ebbc15-b0ed-447d-ba76-ef15455f2446/1

SCARECROW MAKING

Easy Scarecrow Craft for Kids

Discover a simple paper craft that invites children to explore their creativity in the classroom. Engage in imaginative play as you create and bring a little scarecrow to life.
https://www.youtube.com/watch?app=desktop&v=Fs3-qgt56TM

ABC News / This robotic dog emits loud noises to scare birds from hazelnut orchards

In this video, students are introduced to an innovative solution for protecting hazelnut orchards from bird damage a robotic dog that emits loud noises to scare away flocks. This high-tech device offers a modern twist on the traditional scarecrow, combining sound and movement to actively deter birds. The video explores how this robotic approach stacks up against the classic scarecrow in safeguarding crops, offering a glimpse into the future of agricultural protection.
https://www.abc.net.au/news/2024-11-04/robotic-dog-emits-loud-noises-to-scare-away-birds/104548890

Scarecrow Printable Activities

This set of scarecrow printable classroom activities includes fun colouring pages, crafting templates, and vocabulary exercises, all designed to engage young learners. Students will explore the origins of scarecrows while developing creativity, fine motor skills, and language abilities in an interactive way.
https://www.thingstoshareandremember.com/scarecrow-printable-activities/

The Role of Scarecrows in Agriculture

Discover the role of scarecrows in agriculture with this article. Learn how these time-tested tools have been used for centuries to protect crops from birds and pests. From their ancient origins to modern-day innovations, the article explores how scarecrows work, how they've evolved, and why they remain an essential part of farming practices today.
https://gardeningyards.com/do-scarecrows-really-work-the-truth-about-their-effectiveness/

DAIRY - INDUSTRY & PRODUCTS

PRE-EXCURSION VIDEO

Meet John a Dairy Farmer / Ekka Meet a Farmer w/ Sammie O'Brien

Join Sammie O'Brien as she takes you behind the scenes of Kenilworth Dairies, a working dairy farm and cheese factory. Kenilworth Dairies is owned by John and Margaret Cochrane, their son Kelvin and wife Ronnie. Dairy farmers for many generations, the Cochrane family are passionate about producing quality dairy products for Australians, including their award-winning cheese. https://youtu.be/VXLG3zoeMxs

POST-EXCURSION ACTIVITIES

Dairy Australia's Initiative – Discover Dairy Life as a Dairy Cow – Foundation to Grade 2

Life as a dairy cow will spark curiosity in your students so they can investigate and understand more about raising and caring for cows on dairy farms. This inquiry-based learning unit has a series of activities based on content descriptors from the Australian Curriculum in the Science and Design & Technologies learning areas, alongside suggested assessment tasks. https://www.dairy.edu.au/resources/inquiry-unit-resources/farm-to-plate--inquiry-unit-foundation--year-2

Dairy Australia

DAIRY - INDUSTRY & PRODUCTS

Technology from Farm to Plate – Grade 3 to 4

'Technology - from Farm to Plate' invites students to explore the role that technology has on dairy farms, including food technologies and production. This inquiry-based learning unit has a series of activities based on content descriptors from the Australian Curriculum for Year 3 and Year 4 Science & Design Technology learning areas. https://www.dairy.edu.au/resources/inquiry-unit-resources/farm-to-plate--inquiry-unit-technology-from-farm-to-plate-year-3-and-4

Sustainable Dairy Farming – Grade 5 to 6

'From farm to plate: Sustainability' provides students with the opportunity to explore the farm's dependence on the rest of the environment to produce milk and care for animals. Students will explore the various farm systems that support this using a project plan to research and present on farm sustainability issues, such as biodiversity, land and water management or solar energy. The goal is for students to make meaning of their learning while using information about dairy farming as a stimulus along the journey. https://www.dairy.edu.au/resources/inquiry-unit-resources/farm-to-plate--inquiry-unit-sustainable-dairy-farming-year-5-and-6

DAIRY - INDUSTRY & PRODUCTS

ADDITIONAL RESOURCES - ACCESSIBLE FOR ALL AGES

Australian Dairy Cows

There are many breeds of dairy cows in Australia. Holstein, Jersey and Aussie Red are the most popular, all have distinctive characteristics.
https://www.dairy.edu.au/information/australian-dairy-cows

Milk Cycle

Follow the animated journey of how dairy cows make milk. The system of organs and processes involved in the digestion and lactation of a dairy cow are fascinating. How much milk can a dairy cow produce in a day? This animation is designed to compliment the inquiry units and activity ideas on Discover Dairy. https://www.dairy.edu.au/resources/interactive-resource/milk-cycle

PRE-EXCURSION VIDEO

Primary Industries Education Foundation Australia / Stories about people who produce our food and fibre

Discover different types of grains that are farmed in Australia, how they're produced, and where they end up. https://www.youtube.com/watch?v=iipJdcpseUs

POST-EXCURSION ACTIVITIES

Grains Research & Development Corporation / Learning Tools - Accessible for all ages

Australian Grains, Oilseeds, and Pulses Poster
https://ezrwbvk28gx.exactdn.com/wp-content/uploads/2022/11/PIEFA-Aust-Grains-A0-poster_HR28.pdf

GRDC
GRAINS RESEARCH & DEVELOPMENT CORPORATION

Grain Facts for Schools: WHEAT Factsheet
https://grdc.com.au/__data/assets/pdf_file/0022/367042/Grain-facts-for-schools-wheat.pdf?utm_source=website&utm_medium=download_link&utm_campaign=pdf_download&utm_term=National&utm_content=Grain%20Facts%20for%20Schools:%20Wheat

ABC Education / ABC Open: Barooga at harvest time - Foundation to Grade 2

Harvest is one of the busiest times for farmers who grow crops. Watch this video to learn about a machine used during harvest and what it does. What happens to the grains after they've been harvested? Why do the farmers need to harvest their crops before the rain comes?

https://www.abc.net.au/education/abc-open-barooga-at-harvest-time/13963786

Grains Research & Development Corporation / Introduction to Grains, Oilseeds, and Pulses - Grade 3 to 6

Produced by the GRDC, the Introduction to Oilseeds, Grains and Pulses is a self study or classroom based netquest that sends students on an internet based research quest for answers. Students are challenged to find answer to questions about oilseeds, popular grains, what pulses are, and facts about growing them within Australia.

https://primezone.edu.au/resource/grains-oilseeds-pulses-netquest/

Grains Research & Development Corporation / Sunflower Stories - Grade 3 to 4

This exciting and interactive unit of work offers a unique perspective on one of Australia's most fascinating crops – sunflowers. From understanding what sunflowers are and how they are farmed, to exploring the lifecycle of a seed and the process of producing sunflower oil, this lesson plan has it all.

https://ezrwbvk28gx.exactdn.com/wp-content/uploads/2021/04/Sunflower-Stories-34.pdf

The GiST / Engineering from Farm to Table - Grade 5 to 6

Students are invited to become food and fibre engineers to research how wheat, the largest agricultural crop in Australia, gets from the farm to the table. They will build and improve models of key agricultural or production technologies.

https://www.thegist.edu.au/educators/stem-lesson-plans/lessons-for-years-5-6/engineering-from-farm-to-table/

Australia's Defining Moments Digital Classroom / 'Federation' Wheat - Grade 5 to 6

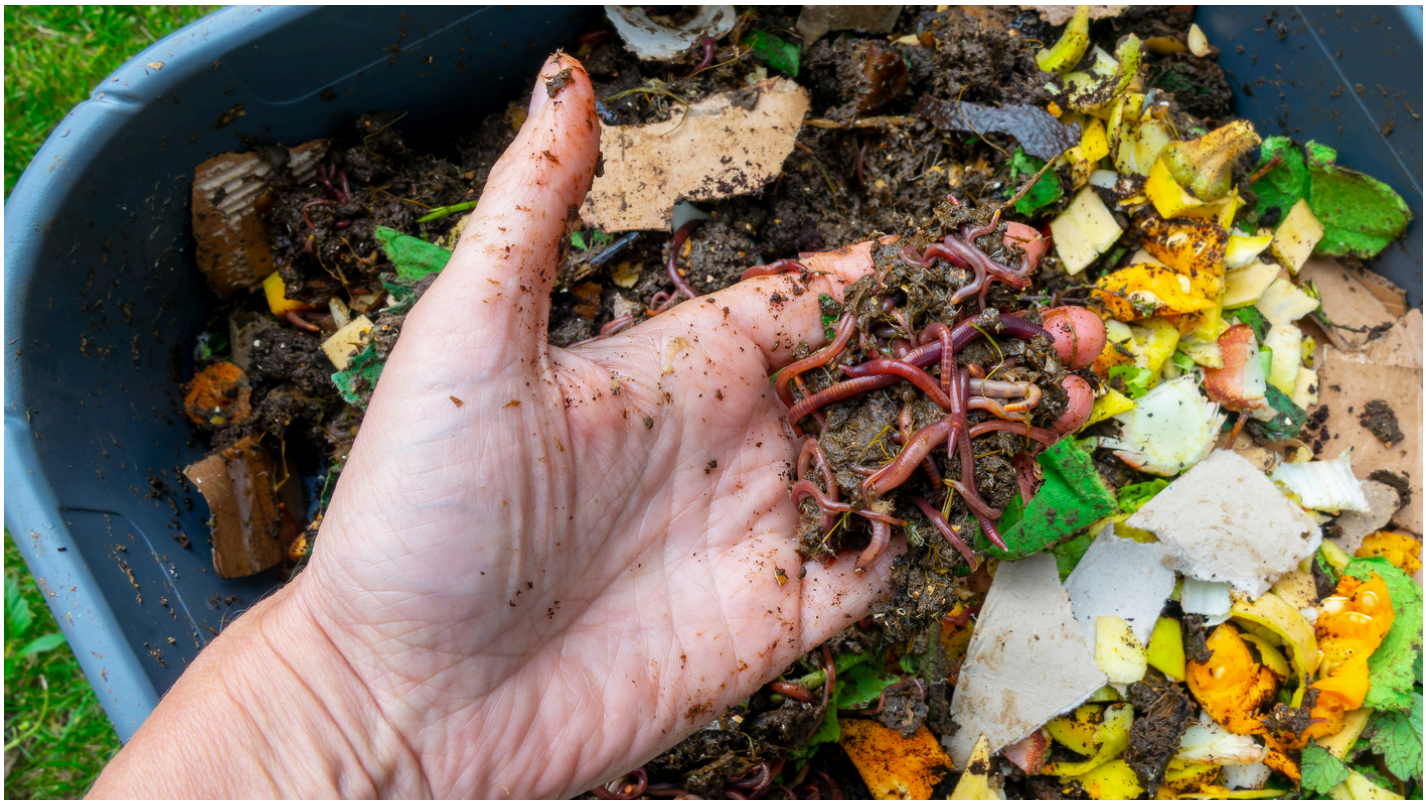
Wheat was one of the first crops planted by colonists in Australia in 1788. At first, harvests were poor, but soon wheat became Australia's most important crop. However during the 1800s a destructive wheat disease called 'black stem rust' reduced harvests. William Farrer experimented in cross-breeding wheat to produce 'Federation' wheat, the first specifically Australian variety that was resistant to both rust and drought.

https://digital-classroom.nma.gov.au/defining-moments/federation-wheat-distributed

PRE-EXCURSION VIDEO

Kids Compost - Local Land Services NSW

Composting is a vital practice that turns everyday waste into valuable resources. Discover how food scraps and garden waste can be transformed into nutrient-rich compost. Join experts Rob Niccol and Peter Conasch as they guide us through the process and share the benefits of composting in our communities and farms.
https://www.youtube.com/watch?v=G0f6XNMDb64



POST-EXCURSION ACTIVITIES

Junior Landcare: Creating Compost- Accessible for all ages

You're going to create your very own compost! This activity will guide you through the simple steps needed to transform everyday waste into nutrient-rich soil.
https://juniorlandcare.org.au/print/?wpv-relationship-filter=65635&post_ids=65635

Junior Landcare: Soil - More than Just Dirt - Accessible for All Ages

Explore different soil textures and uncover their unique properties! In this hands-on activity, children will engage in simple soil testing to understand how each type of soil contributes to plant growth. By learning about the characteristics of sandy, clay, and loamy soils, kids will gain a deeper appreciation for the vital role that soil plays in nurturing our plants and ecosystems. Let's dig in and discover the wonders beneath our feet!
https://juniorlandcare.org.au/learning_activity/soil-more-than-just-dirt/

Junior Landcare: Investigating the Soil Food Web - Accessible for All Ages

In every square meter of soil, millions of organisms thrive, forming what we call the soil food web. This intricate system recycles nutrients, making them available for plant growth. For many children and educators, the concept of the soil food web might be a new and exciting discovery. This activity encourages hands-on exploration of soil samples to uncover evidence of these tiny organisms.
https://juniorlandcare.org.au/learning_activity/investigating-the-soil-food-web/

Junior Landcare: Creating a Worm Farm - Accessible for All Ages

Food and gardening scraps thrown into household bins becomes landfill. When food waste breaks down in landfill, it emits greenhouse gases including methane gas which traps heat in our atmosphere. Diverting this organic waste from landfill and into a worm farm or composting system is great for your garden and for our planet. Worms can turn garden waste into rich fertilizer.

https://juniorlandcare.org.au/learning_activity/creating-a-worm-farm/

WORMS - COMPOSTING

Worm Lovers: Primary Years Curriculum Resources - Foundation - Year 6

Wormlovers provides primary schools (Foundation to Year 6) with engaging, curriculum-aligned resources to teach sustainability. The offerings include classroom incursions, organic waste solutions, and teacher-led activities with notes, worksheets, curriculum links, and videos, making it easy for schools to integrate sustainability into everyday learning.
https://www.wormlovers.com.au/7z060i

Gardening Australia: Want to build a worm farm or a chook shed? - Years 3 - 4

Learn how to create a sustainable worm farm in your school yard! In this video, Josh Byrne demonstrates the construction of a worm farm and a chicken house, while sharing valuable composting techniques. Discover the importance of organic waste, the roles of worms in gardening, and practical tips for setting up and maintaining these systems. Join us on this exciting journey to enhance your school garden and promote recycling in nature!
https://www.abc.net.au/education/gardening-australia-want-to-build-a-worm-farm-or-a-chook-shed/13898910

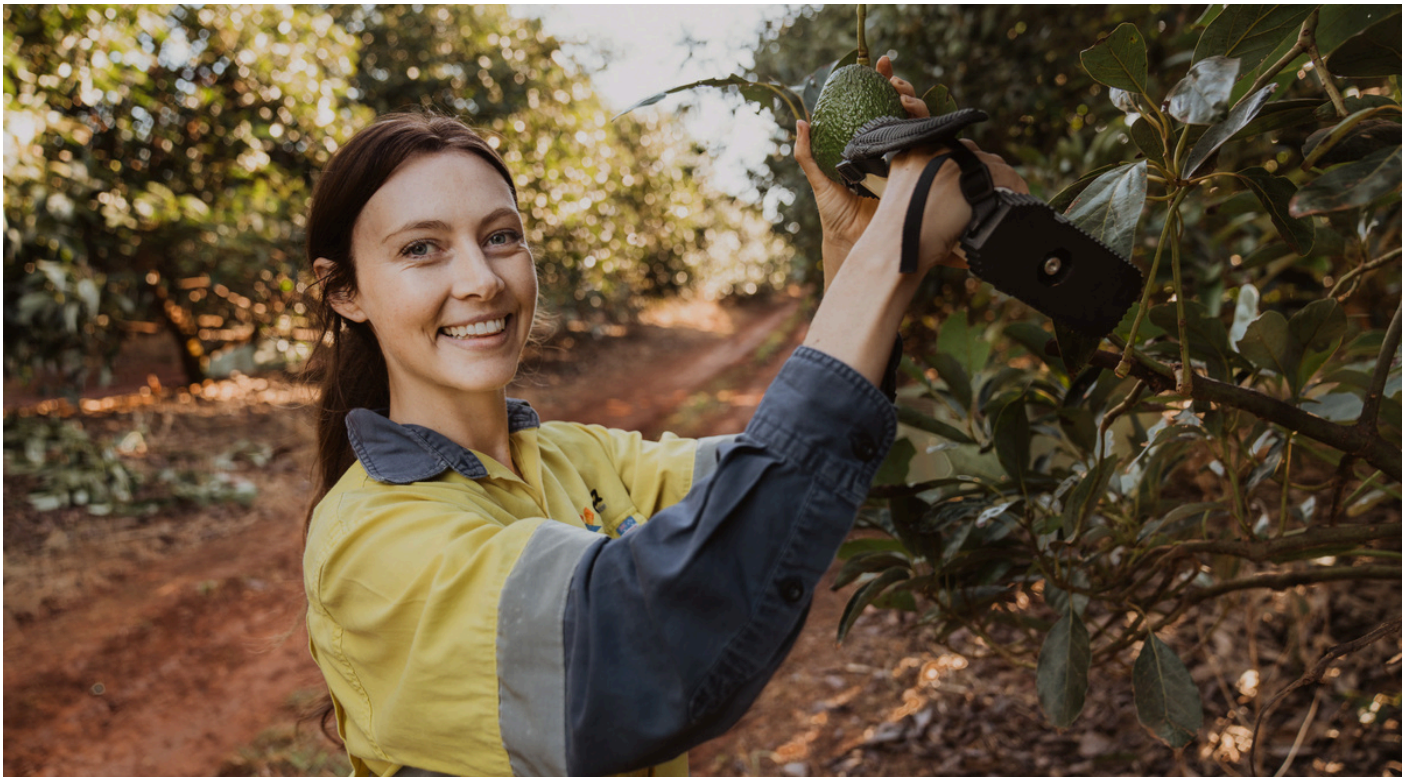
Asia Education: Reduce reuse recycle compost - Years 5 - 6

This learning sequence focuses on waste management strategies—reducing, reusing, recycling, and composting. Students will begin by recording and analysing the waste generated from their own lunches and snacks, fostering awareness of their personal impact. To assess the effectiveness of their efforts, they will develop a rubric that evaluates the impact of their campaigns on both their sister school and the broader school community. This sequence promotes critical thinking, collaboration, and practical application of sustainability principles.
https://www.asiaeducation.edu.au/curriculum/details/reduce-reuse-recycle-compost

PRE-EXCURSION VIDEO

Meet Chris an Avocado Farmer / Ekka Meet a Farmer w/ Sammie O'Brien

Sammie visits Chris from Costa Farms in Childers to learn all about what goes into growing delicious and creamy avocados. https://www.youtube.com/watch?v=NwGRDxCI1dM&list=PLvJbE6Ug2bkT-mJ-5pYKWXwz-eujdHLMn&index=4



POST-EXCURSION ACTIVITIES

ABC Education: Kids in the Garden / How seeds become plants - Accessible for all ages

Tiny or huge, prickly or smooth, seeds contain everything a plant needs to start a new life. Watch this clip and find out how seeds get around, and what they need to start growing. Presenter Nick Hardcastle will even show you how to grow your own plants from seed. https://www.abc.net.au/education/kids-in-the-garden-ep-2-how-seeds-become-plants/13633088

ABC Education: Kids in the Garden / Why Plants Make Fruit - Accessible for all ages

Have you ever wondered why plants make them? Discover an amazing variety of fruits. Learn the secret of these little plant packages and the treasures they protect.

https://www.abc.net.au/education/kids-in-the-garden-ep-6-why-plants-make-fruit/13605862

ABC Education: Kids in the Garden / How plants work - Accessible for all ages

Plants are the only living things that can make their own food. They do this during the day while it's light, using a process called photosynthesis, which uses carbon dioxide and produces oxygen. During the day and night plants take in oxygen and release carbon dioxide through respiration. Discover just how important plants are to life on Earth. Find out how we can help plants survive and thrive. https://www.abc.net.au/education/kids-in-the-garden-ep-5-how-plants-work/13633124

Junior Landcare: Sow a seed, grow a feed - Accessible for all ages

Engage young learners' senses as they grow food from a seed. They can learn about caring for a living thing, experience the joy of watching something grow and harvesting healthy food. The activity provides opportunities for development of science, sustainability and maths concepts.
https://juniorlandcare.org.au/learning_activity/sow-a-seed-grow-a-feed/

Education Services Australia - Plant Scan - Accessible for all ages

Show an alien how much you know about plant life on Earth. Answer a quiz on plant structure and function. Identify labels for plant parts. Match each plant part with its function.
https://www.scootle.edu.au/ec/viewing/L31/index.html#plant-parts

Fresh for Kids / Activities & Games - Accessible for all ages

Access a range of fruit-based colouring in pages, anagrams, dot-to-dot drawings, word searches, and mazes.

https://www.freshforkids.com.au/kids-corner/activities-and-games.html

Ekka EDUCATION

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.

www.ekka.com.au