

NATIONAL AG DAY 2022 FARMER TIME RESOURCE KIT SECONDARY



The following Farmer Time activities and accompanying learning resources can be utilised to engage your students in food and fibre learning to celebrate National Ag Day 2022.

For more food and fibre learning resources, visit www.primezone.edu.au

FACILITATING A NATIONAL AG DAY FARMER TIME LESSON

This digital resource kit is designed for teachers and educators across Australia. Within the following pages, you will find a series of **digital (virtual) Farmer Time farm tours** that explore food and fibre production in Australia.

Each of the pre-recorded Farmer Time sessions is accompanied by a lesson plan or lesson sequence to consolidate student learning and promote further inquiry into the selected industry.

Each lesson runs for approximately 90 minutes and has a curriculum focus. These sessions can also support staff in addressing cross-curriculum priorities, such as sustainability, to enrich the learning experience.

It is suggested that teachers watch the selected video lessons they plan to utilise before commencing teaching to ensure they have collected the necessary materials required to complete the activities.

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SECONDARY

YEARS 7-8

COTTON PRODUCTION

This Farmer Time session explores cotton production in Australia and some of the management practices implemented on cotton farms to ensure producers are caring for the landscape. Students will investigate how cotton is produced in managed environments and source information and resources about cotton and cottonseed. Students will develop knowledge and understandings about how cotton is grown, produced and processed in managed environments. Students also investigate and explain how both cotton and cottonseed oil have certain characteristics and properties that determine how they can be used. Using 'design and production skills' students design either a cotton muslin bag or an infused cottonseed oil with a detailed label design that educates consumers about how it was produced.

ACTIVITY | Australian Cotton: Following the Thread
<https://www.primezone.edu.au/resource/australian-cotton-following-the-thread-national/>

Farmer Time

ACCESS LESSON VIDEO:
https://www.youtube.com/watch?v=_S82TlexhrU&list=PLRc0y2XWzIY680A9jV_WFO2tY9VZiK8X2&index=9

ACARA curriculum codes:
AC9TDE8K01, AC9TDE8K04,
AC9TDE8P01, AC9TDE8P02



YEARS 7-8

A DAY IN THE LIFE OF A CHICKEN MEAT FARMER

This lesson explores 'a day in the life' of an Australian chicken meat farmer. After watching the video, students will work in small groups to answer the inquiry question: What scientific knowledge has influenced the current agricultural practices of the chicken meat industry?, choosing an area of scientific knowledge to focus on. They will produce a final product, such as a website, a video, a poster, an essay, or another option that they choose. Students will need to produce an infographic explaining the area that they are investigating, for example how the computer controlled environment works, or how vaccines work. They will present their work to an audience.

ACTIVITY | Chicken Farming in the Living World – Stage 4
<https://www.primezone.edu.au/resource/chicken-farming-in-the-living-world-stage-4/>

Farmer Time

ACCESS LESSON VIDEO:
<https://www.youtube.com/watch?v=Wkht0q4VzBo>

ACARA curriculum codes:
AC9TDE8K01, AC9TDE8K04,
AC9S7H01, AC9S8H01,
AC9S7H03, AC9S8H02



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YEARS 7-8

SUGARCANE PRODUCTION



Farmer Time

ACCESS LESSON VIDEO:
https://www.youtube.com/watch?v=x8ovF2QF_SY&list=PLRc0y2XWzlY68OA9jV_WFO2tY9VZiK8X2&index=32

ACARA curriculum codes:
AC9TDE8K04, AC9TDE8K02,
AC9TDE8K01

Sugarcane growers produce more than just sugar. From cattle feed to garden mulch, sugarcane has many uses throughout our community.

During this lesson, students will learn all about growing, harvesting, and processing sugarcane. They will also learn about the fundamentals of value-added products, like ethanol, hand sanitiser, mulch, etc. and how they relate to agricultural industries.

This lesson explores the paddock to packet journey of raw sugar produced in Australia. Students will have the opportunity to hear first-hand from cane producers Zenan Reinaudo and Paul Marbelli, about Australia's sugar industry and the many products and value-add products that can be made from sugarcane.

Upon watching the Farmer Time video, students will conduct a more in-depth investigation into the products made from sugarcane through the 'One Plant, Many Products' interactive learning resource, available on the Primezone Academy website.

ACTIVITY | One Plant, Many Products

<https://www.primezone.edu.au/resource/sugarcane-one-plant-many-products/>

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YEARS 9-10

COMMERCIAL FISHING IN AUSTRALIA

In this lesson, students will hear from Sienna Green, a 24 year old commercial mud crab fisher from the Burdekin in Queensland, about some of the sustainable practices implemented in her production system to prevent overfishing of mud crabs in the region.

Students will then conduct an investigation into why the world's oceans are at risk from overfishing and explore how scientific knowledge is being used to prevent overfishing, considering ways that science can be utilised to support sustainable fishing in the future.

ACTIVITY | Science for Sustainable Oceans

<https://www.primezone.edu.au/resource/science-for-sustainable-oceans/>

Fisheries Time

ACCESS LESSON VIDEO:
https://www.youtube.com/watch?v=yOZiqdIq6Cc&list=PLRc0y2XWzIY68OA9jV_WFO2tY9VZiK8X2&index=27&t=1s

ACARA curriculum codes:
AC9TDE10K01,
AC9TDE10K02,
AC9TDE10K04



YEARS 9-10

WINE PRODUCTION

During this lesson, students will explore the processes involved in growing grapes for wine production. Students will develop an understanding of the different wine growing regions of Australia and the conditions required for wine production.

After watching the Farmer Time video, students will conduct a further exploration into the different wine regions in Australia that are defined by climate, geography and soil types as they watch a video and complete a response task about viticulture.

ACTIVITY | Investigating Australian Food and Fibres- Cape Jaffa Wines

<https://www.primezone.edu.au/resource/investigating-food-and-fibres-video-and-worksheet/>

Farmer Time

ACCESS LESSON VIDEO:
https://www.youtube.com/watch?v=TCZpOVlqFRw&list=PLRc0y2XWzIY68OA9jV_WFO2tY9VZiK8X2&index=7

ACARA curriculum codes:
AC9TDE10K01,
AC9TDE10K02,
AC9TDE10K04,
AC9HG9K01, AC9HG9K02



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SECONDARY

YEARS 9-10

CARING FOR THE ENVIRONMENT IN THE RED MEAT INDUSTRY



Farmer Time

ACCESS LESSON VIDEO:

https://www.youtube.com/watch?v=aFwmUzxeyvA&list=PLRc0y2XWzIY68OA9jV_WFO2tY9VZiK8X2&index=33

ACARA curriculum codes:
AC9TDE10K01, AC9TDE10K04,
AC9HG9K03

During this lesson, students will explore some of the management practices implemented on a regenerative beef cattle farm, as well as those utilised in traditional beef cattle production systems to improve productivity, sustainability and profitability.

During the Farmer Time video, regenerative beef producer, Tim Eyes, describes regenerative farming and the reasons he decided to move away from traditional agricultural practices when starting his own business.

After watching the Farmer Time video, students will read the Australian Good Meat Industry Fact Sheet about management practices implemented to care for the environment before completing the comprehension response task to consolidate their understanding.

ACTIVITY | Caring For The Environment in the Red Meat Industry

Fact Sheet: <https://www.goodmeat.com.au/globalassets/good-meat-v2/education-resources/facts-for-students---fact-sheet---caring-for-the-environment---cc-1.pdf>

Comprehension Task: <https://www.goodmeat.com.au/globalassets/good-meat-v2/education-resources/cross-curricular---caring-for-the-environment-comprehension---cc-1.pdf>

Source: *Australian Good Meat, 2021, Caring For the Environment-Facts*
URL: <https://www.goodmeat.com.au/educational-resources/resources/>

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YEARS 9-10

PORK PRODUCTION



Farmer Time

ACCESS LESSON VIDEO:

https://www.youtube.com/watch?v=9IS46MTEcVU&list=PLRc0y2XWzIY68OA9jV_WFO2tY9VZiK8X2&index=25

ACARA curriculum codes:
AC9TDE10K01, AC9TDE10K04,
AC9HG9K03

This lesson encourages students to investigate and make judgements about the ethical and sustainable production and marketing of Australian pork.

Students will hear from pork producer, Tim Kingma, about his intensive productive system in Victoria. After engaging in the Farmer Time session, students will complete a series of activities to develop an understanding of the technologies and methods used by the pork industry to raise and produce pigs.

Students will explore key elements of how pork products are marketed and labelled, analyse these elements, and design a labelling system that will be attractive to the consumer - that communicates accurate information about how a range of pork products were farmed and where they were produced.

ACTIVITY | Producing and Marketing Australian Pork

<https://www.primezone.edu.au/resource/producing-and-marketing-australian-pork/>