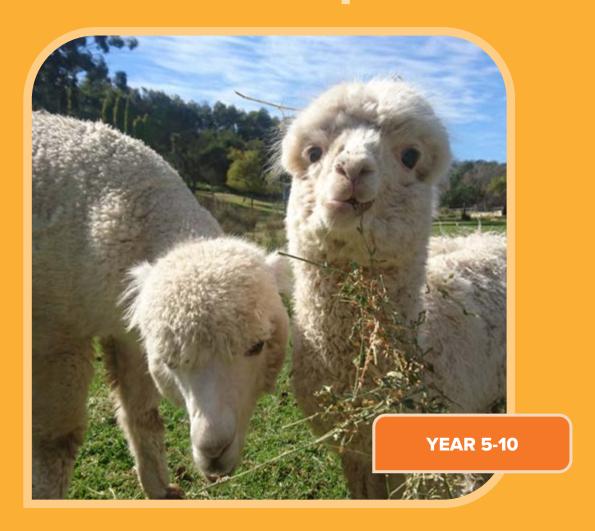


INSTRUCTIONS

Awesome Alpacas



PIEFA Food and Fibre Card Game Australian Alpaca Association Supply Chain

This resource has been developed by:









AUSTRALIAN CURRICULUM CONTENT

YEAR 5-6

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

Investigate needs or opportunities for designing, and the materials, components, tools, equipment and processes needed to create designed solutions (AC9TDE6P01)

Investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions (AC9S5H02, AC9S6H02)

Locate, collect and organise information and data from primary and secondary sources in a range of formats (AC9HS5S02, AC9HS6S02)

YEAR 7-10

Analyse how people in design and technologies occupations consider ethical and sustainability factors to design and produce products, services and environments (AC9TDE8K01)

Analyse how food and fibre are produced in managed environments and how these can become sustainable (AC9TDE8K04)

Analyse needs or opportunities for designing, and investigate and select materials, components, tools, equipment and processes to create designed solutions (AC9TDE8P01)

Generate, test, iterate and communicate design ideas, processes and solutions using technical terms and graphical representation techniques, including using digital tools (AC9TDE8P02)

Analyse and make judgements on the ethical, secure and sustainable production and marketing of food and fibre enterprises (AC9TDE10K04)









Game Objectives

By participating in a hands-on card game, students will learn to sequence the process of converting fibre from alpacas on a farm into an end product suitable for sale. Additionally, they will gain an understanding of technologies and the careers involved in the supply chain.

The supply chain game cards can be printed from this document and can also be accessed in the following lessons:

- > Year 5-6, Lesson 3
- > Year 7-10, Lesson 3 and Lesson 4





Resources and Equipment

PACK CONTENTS

> 48 game cards



Arrow cards

19 x Arrow game cards



Step cards

15 x Step game cards



Career cards

7 x Career game cards and 1 x Career game card template



Scan cards

2 x QR Code game cards



Technology cards

1x Technology game card and 3 x Technology game card templates









GAME 1 - THE SUPPLY CHAIN FLOWCHART

- Approximately 2 4 players
- 2. Butchers paper and markers
- 3. Individual computer/digital device access
- 4. Wool Production and Processing (3:10)
- 5. Why Alpaca is the Smart Future for Australia (0:00-4:25 for year 5-6 and 0:00-7:07 for year 7-10)
- 6. PIEFA Food and Fibre Card Game | Australian Alpaca Association Supply Chain Game Cards (printed, cut into individual cards and preferably laminated)
- 7. Extension: Australian Alpaca Association
- 8. Extension: Job Boards for Agriculture

Objective

To create a flowchart of the alpaca supply chain in the correct order.

Game play

- Players watch the video on sheep wool/fibre production and processing Wool Production and Processing (3:10).
- During the video, players will create a flowchart on butchers paper, showing the journey of alpaca fibre from the farm to a high quality alpaca end product, such as a garment, blanket, accessory, etc.
- 3. Players will include the name of the step or process in the supply chain and use arrows between each step to show the path of the product.
- 4. Players place all the step, and arrow game cards face up and sort them into two piles:
 - Step game cards () and
 - Arrow game cards ()
 - Remove and reserve the career (n), technology, and QR code (n) game cards.
- 5. Players collaborate and organise the cards into a supply chain by placing the step game cards into their sequential order and arranging the arrow game cards between each step to create a supply chain flowchart.
- 6. Players check answers with their teacher.









Extension 1 - Careers

- a) Players take the career cards from the reserved cards from step 4.
- b) Using the completed flowchart, place the career game cards adjacent (next to) to the step they are associated with on the completed flowcharts.
- c) Research careers that occur along the supply chain. Students may use the Australian Alpaca Association website, Job Boards for Agriculture or an internet search engine.
- d) Design a card for another career related to the supply chain by filling in the provided areas of the blank template. Players can use the other career game cards as a model for their design.
- e) Place the newly designed career card adjacent to the step associated with the career on the flowchart.

Extension 2 - Technology

- a) Players take the technology card from the reserved cards in step 4. Using the completed flowchart, place the technology game card adjacent (next to) to the step they are associated with on the completed flowcharts.
- b) Research a technology used in any part of the supply chain to improve productivity, speed up a job, produce higher quality fibre, etc.
- c) Using the supplied technology cards as a model, design three or more technology cards using the templates and cut them out. Include a description of the technology, a picture, and an explanation of how the technology is advantageous on each card template.
- d) Using the completed flowchart, place the newly designed technology game card adjacent (next to) to the step it is associated with on the supply chain

REFERENCES

Australian Alpaca Association. (n.d.a). Home. Australian Alpaca Association. https://alpaca.asn.au/

Australian Alpaca Organisation. (n.d.b). Why Alpaca is the Smart Future for Australia. www.youtube.com. Retrieved September 14, 2022, from https://www.youtube.com/watch?v=quXELeJI7bc

Career Harvest. (2022, May 3). Job Boards for Agriculture | Agriculture Careers. www.careerharvest.com.au. https://www.careerharvest.com.au/jobboards

IWTOCHANNEL. (n.d.). Wool Production and Processing. www.youtube.com. Retrieved November 23, 2022, from https://www.youtube.com/watch?v=ezcnihYoJ7E&t=189s

This work is licensed under Attribution-NonCommercial 4.0 International. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/

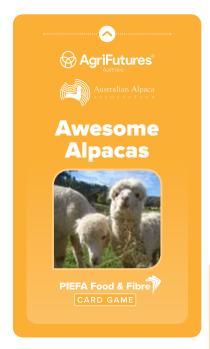
This resource has been developed by:

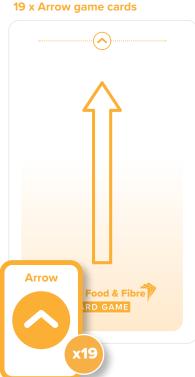














2 x QR Code game cards







8 x Career game cards



This resource has been developed by:







