



CUT
FOLD

Awesome Alpacas

CARD GAME

By participating in an engaging, hands-on card game, students will learn the sequencing process of converting on-farm food and fibre products into a product suitable for sale.



Scan for full instructions
<https://www.primzone.edu.au/resource/piefa-food-fibre-card-game/>



Awesome Alpacas

CARD GAME



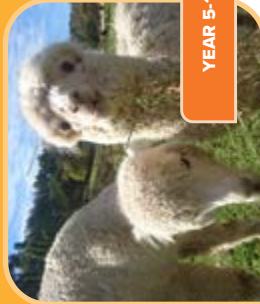
PIEFA Food & Fibre

CARD GAME

Awesome Alpacas

PIEFA Food & Fibre
CARD GAME

Awesome Alpacas



YEAR 5-10



YEAR 5-10

Awesome Alpacas

CARD GAME



19 x Arrow
game cards



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PIEFA Food & Fibre
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19 x Arrow
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2 x QR Code game cards



Awesome Alpacas



PIEFA Food & Fibre
CARD GAME



Instructions for the Awesome Alpacas

PIEFA Food & Fibre Card Game
Australian Alpaca Association Supply Chain



Scan the QR code to learn how to use these cards to sequence the process of converting fibre from alpacas on a farm into an end product suitable for sale.



Australian Alpaca
ASSOCIATION



Scan the QR code to discover how the Australian Alpaca Association is helping to build a successful and sustainable alpaca industry in Australia.



PIEFA Food & Fibre
CARD GAME



15 x Step game cards



Farm



CONSIDERATIONS:

Farms are areas of land used to raise plants and animals for food and fibre. Animals, such as alpacas, are cared for on a farm. They are managed so that they are stress-free, protected from disease, and have all of their needs met.



Shearing



CONSIDERATIONS:

Alpacas are shorn once a year, in spring. Shearing usually takes around five to ten minutes per alpaca, and 2.5-5.0 kg of fleece is collected from each animal. Each animal is laid on their side, either on a shearing table or the ground and restrained whilst electric sheep-shearing equipment is used by the shearer.



Pre-classing & Skirting



CONSIDERATIONS:

Alpaca fleece is skirted to remove vegetable matter or unusable fibre. This operation saves time in the next step (classing) and will increase the financial return to the producer.



Classing



CONSIDERATIONS:

Alpaca fleece is sorted and grouped to meet the needs of processors and consumers. The fibre's most important features for classing are: diameter (micron), length and colour.



Scouring & Washing



CONSIDERATIONS:

The fibres must be scoured or washed to remove dirt and grease from the fleece. Alpacas have a low grease content and yield around 90% of the initial fleece weight after scouring.



Carding



CONSIDERATIONS:

Carding aligns the individual fibres while removing some unwanted vegetable matter. Rollers with 'teeth' tease the fibres, open them up, and produce an even strand for the next step.



Top Making



CONSIDERATIONS:

The fibres go through a finishing alignment called 'gilling' before being combed into a product known as a 'top'. This top has the appearance of a loose rope.



Spinning



CONSIDERATIONS:

Tops are fed into spinning machines to make yarn for either knitting or weaving. This is the last step in the process before the fabric is manufactured.



Dyeing



CONSIDERATIONS:

Light-coloured fleece may be dyed in various colours to suit contemporary fashion. Dyeing can occur at various stages along the supply chain. However, the beautiful natural colours of alpacas are also manufactured into high quality products without dyes.



Fabric Formation



CONSIDERATIONS:

Yarn may be woven into luxury fabrics which can then be made into high end products.



Alpaca Co-op Commercial Fleece Buyer Craft Hobbyist

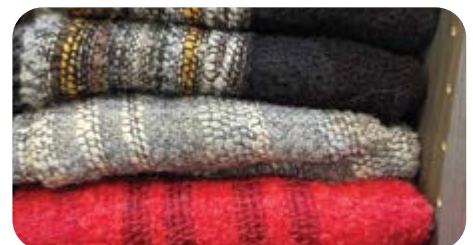


CONSIDERATIONS:

Alpaca co-operatives (co-op), craft hobbyists and commercial fleece buyers purchase fleece from producers, usually after it has been classed. Co-ops are owned and controlled by members so that smaller producers benefit from increased bargaining power and buyers can purchase greater amounts of similar quality fleece.



Manufacturing into End Products



CONSIDERATIONS:

Yarn may be knitted into garments, such as jumpers and scarves, or woven fabric may be made into garments like jackets, sportswear, accessories and designer wear.



15 x Step game cards



Consumer



CONSIDERATIONS:

Consumers are the people who purchase luxury alpaca end products. They are the last step in the supply chain.



Wholesaler



CONSIDERATIONS:

A wholesaler buys and stores alpaca yarn or fabric in large quantities and then sells smaller quantities to retailers.



Retailer



CONSIDERATIONS:

A retailer is a person or a business that sells alpaca end products to consumers. Sales may occur from a physical shop, online shop, market stall, etc.



8 x Career game cards



Producer



CONSIDERATIONS:

- A producer is a farmer who manages, coordinates and performs farming operations related to raising alpacas.
- Producers care for the health and welfare of their animals, minimising stress to produce healthy and productive products.



Shearer



CONSIDERATIONS:

- Alpacas are shorn once a year, usually in spring or early summer.
- Shearers have experience and skills in the techniques of shearing and handling alpacas, which are different from those for sheep.
- It is common practice that alpacas are restrained for shearing.



Agricultural Journalist



CONSIDERATIONS:

- Journalists research and compile news stories, write and edit news reports, commentaries and feature stories for presentation in print and electronic media.
- Sometimes journalists compose written material to advertise goods and services.



Classer



CONSIDERATIONS:

Registered classers have successfully completed a training course in alpaca wool classing/preparation. They assess and group similar alpaca fleece into bales. Classers examine the fibre colour, type, fineness & handle, length, brightness, crimp, guard hair content, tensile strength, and skirtings/oddments and apply a registered classerID (stencil) to the bales.



Camelid Veterinarian



CONSIDERATIONS:

- Camelid veterinarians have training and experience in the medical care and treatment of alpacas. They work closely with producers to improve and maintain the health, welfare and productivity of alpacas.



Scientist



CONSIDERATIONS:

Scientists research, gather and use evidence to make and test hypotheses to gain and share understanding and knowledge. An understanding of the science of fleece production can be applied to selective breeding programs, selecting stock that produces offspring with higher quality, and more desirable fleece.



4 x Technology game cards



Crafter/ Hobbyist



CONSIDERATIONS:

- Crafters or hobbyists participate in making handicrafts using alpaca wool, yarn or fabric. They may make products to sell or for personal use.



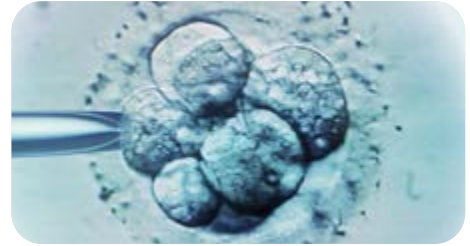
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CONSIDERATIONS:

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Artificial Breeding



CONSIDERATIONS:

Embryo transfer involves transferring a fertilised egg (ova) from a high quality female donor alpaca to a recipient female, who then gives birth and rears the cria.

This means that more offspring can be produced from the genetically superior mother.



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