Australian Good Meat Education resources are developed by

MEAT & LIVESTOCK AUSTRALIA

3–4 | LESSON PLAN

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Lesson 4

Livestock on the farm



AUSTRALIAN CURRICULUM CONTENT

Describe the ways of producing food and fibre. (ACTDEK012, AC9TDE4K03)

Compare characteristics of living and non-living things and examine the differences between the life cycles of plants and animals. (ACSSU044, ACSSU072, AC9S3U01)

Construct and use representations, including tables, simple column graphs and visual or physical models, to organise data and information, show simple relationships and identify patterns. (ACSIS057, ACSIS068, AC9S3I04, AC9S4I04)

Explain the roles and interactions of consumers, producers and decomposers within a habitat and how food chains represent feeding relationships. (ACSSU073, AC9S4U01)

LESSON OBJECTIVE

Students will learn about livestock in Australia and identify breeds and locations that they are commonly farmed.

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Lesson 4

LESSON OVERVIEW

Activity 4.1	Keywords	20–30 mins
Activity 4.2	Where in Australia?	30–40 mins
Activity 4.3	Cattle and sheep in Australia	20–40 mins
Activity 4.4	Just for fun	5–10 mins

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Resources and equipment

ACTIVITY 4.1 – Keywords

1. The cattle are happy and that makes us happy – Jim & Jackie Wedge, Ascot Cattle Co (1.41).
2. The Coffey Family, Miriam Vale, Qld (1.58).
3. Stimulus 4.1a – *Look at us.*
4. Worksheet 4.1a – *Keywords and definitions.*
5. Worksheet 4.1b – *Keywords scramble.*
6. Worksheet 4.1c – *Keywords spelling list.*
7. Timer.

ACTIVITY 4.2 – Where in Australia?

1. Worksheet 4.2a – *Where are Australia's sheep and cattle found?*
2. Highlighters.
3. Worksheet 4.2b – *Find my home!*
4. Scissors and glue sticks.

ACTIVITY 4.3 – Cattle and sheep in Australia

1. Computer/digital device access and headphones.
2. Presentation 4.3a – Cattle in Australia. and/or
3. Presentation 4.3b – Sheep in Australia.
4. Worksheet 4.3a – *3-2-1 What did I learn about cattle?* and/or
5. Worksheet 4.3b – *3-2-1 What did I learn about sheep?*

ACTIVITY 4.4 – Just for fun

1. Worksheet 4.4a – *Animal word search.*

ADDITIONAL READING/RESOURCES

- Producing cattle and sheep... and beef and lamb (0.00 to 5.00).
  * stop clip at 5.00 to only view Southdown sheep breed footage and information.
- Going to the Cattle Yards

Lesson guide

ACTIVITY 4.1 – Keywords

1. Watch the two video clips to view footage of Australian farms and hear from the farmers that care for the livestock and the environment. These farmers breed different types of cattle on their farms.
   - The cattle are happy and that makes us happy – Jim & Jackie Wedge, Ascot Cattle Co (1.41)
   - The Coffey Family, Miriam Vale, Qld (1.58)
2. View Stimulus 4.1a – *Look at us*, and facilitate a discussion about the similarities and differences between the cattle in picture 1 and 2 *(colour, shape of the animal, size and shape of the ears, fluffy versus sleek coat, loose skin versus tighter skin).* Use this discussion to explain that, like people, animals of the same species can also look different. Different breeds of cattle and sheep are suited to different environments and farmed in different regions of Australia.
3. Distribute Worksheet 4.1a – *Keywords and definitions* and read through the information with students. Allow time for students to individually re-read the terms and then allocate students into pairs. Set a five-minute timer, and ask pairs to practise recalling the meaning of the terms with each other. After five minutes, provide students with Worksheet 4.1b – *Keywords scramble.* Students work together to unscramble the keywords and recall and record their definitions together. (Answers page 21–22)

   Optional: Provide students with Worksheet 4.1c – *Keywords spelling list.*

ACTIVITY 4.2 – Where in Australia?

1. Distribute Worksheet 4.2a – *Where are Australia's sheep and cattle found?* to students, and as a class, look at the cattle and sheep numbers in Australia. In a central area, ask students to help rank the order of cattle numbers in each state/territory from the highest number to the lowest number and record the information for students to see. Repeat this activity for Australian sheep numbers. Students then record the two highest numbers on their worksheet. (Answers on page 23)
2. As a class, continue to read the information about different cattle breeds that are suited to the northern and southern areas of Australia, and why farmers use crossbreeding on their farms. Encourage students to highlight or underline the important features of the text.
3. Provide students with Worksheet 4.2b – *Find my home!* Students use the information they have learnt to cut out and paste the eight different breeds of cattle onto the correct areas of their maps. (Answers on page 23)

***Lesson guide** continued next page*

Lesson guide *continued*

ACTIVITY 4.3 – Cattle and sheep in Australia

1. Allow students computer/digital device access to the links Presentation 4.3a – Cattle in Australia and/or Presentation 4.3b – Sheep in Australia. If needed, provide students with support in working through the slides of the presentation (which also include embedded videos). (Answers on page 23)
2. Students read and watch the information about their animal type, and at the end, create a summary of what they have learnt on Worksheet 4.3a – *3-2-1 What did I learn about cattle?* and/or Worksheet 4.3b – *3-2-1 What did I learn about sheep?*

   Option: If students need support with digital literacy and summarising, view one of the presentations as a class and complete a 3-2-1 worksheet together. Students then complete the second presentation individually, practising these skills.

ACTIVITY 4.4 – Just for fun

1. Provide students with Worksheet 4.4a – *Animal word search*, and allow them time to find the listed words. (Answers page 24)

Student resources

ACTIVITY 4.1 – Keywords

Stimulus 4.1a	Look at us
Worksheet 4.1a	Keywords and definitions
Worksheet 4.1b	Keywords scramble
Worksheet 4.1c	Keywords spelling list

ACTIVITY 4.2 – Where in Australia?

Worksheet 4.2a	Where are Australia's sheep and cattle found?
Worksheet 4.2b	Find my home!

ACTIVITY 4.3 – Cattle and sheep in Australia

Presentation 4.3a	Cattle in Australia
Presentation 4.3b	Sheep in Australia
Worksheet 4.3a	3-2-1 What did I learn about cattle?
Worksheet 4.3b	3-2-1 What did I learn about sheep?

ACTIVITY 4.4 – Just for fun

Worksheet 4.4a	Animal word search

Stimulus 4.1a

Look at us





Worksheet 4.1a

Keywords and definitions

Read the keywords and definitions below. Practise saying them once to yourself and then with a partner. Test each other on the meaning of the words.

breed	Animals or plants of the same type that share similar traits.
Bos indicus	A type of cattle breed that originated from India.
Bos taurus	A type of cattle breed that originated from Europe.
herd	A large group of cattle that live together and are kept together.
ruminant	A type of animal that has 4 stomach compartments like cattle, sheep and goats.
welfare	The health and happiness of a living thing.
flock	A group of sheep that live together and are kept together.






Worksheet 4.1b

Keywords scramble

Unscramble the keywords below and recall their meanings.

r d h e

e r f w l a e

e e r b d

c l f o k






***Worksheet 4.1b** continued next page*

Worksheet 4.1b continued

Worksheet 4.1b

Unscramble the keywords below and recall their meanings.

iicBsonuds

ustaurBso

inurtnma






Worksheet 4.1c

Keywords spelling list

Spell the keywords below.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

Worksheet 4.2a

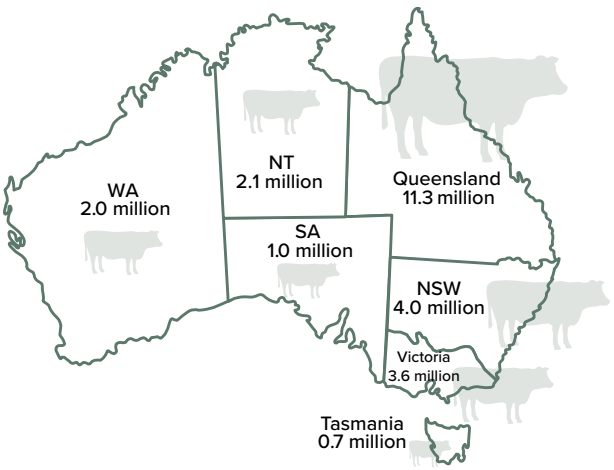
Where are Australia's sheep and cattle found?

Cattle and sheep farms are located throughout Australia.

The diagrams below give us an idea of which states/territories have the greatest herd and flock numbers.

National cattle numbers

as at June 2019: 24.7 million head



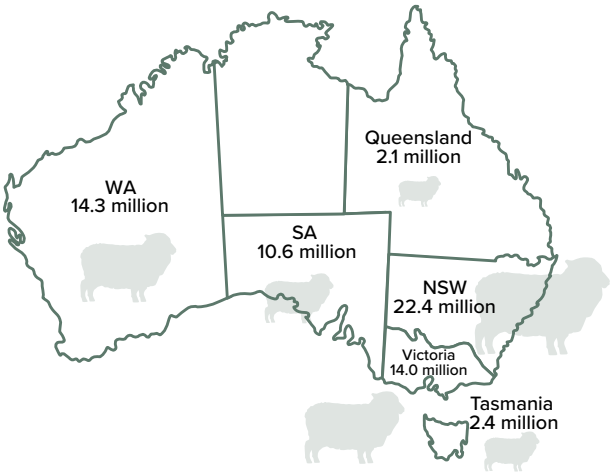
Source: ABS

a. Which state/ territory has the most cattle?

Source: mla.com.au/globalassets/mla-corporate/prices--markets/documents/trends--analysis/fast-facts--maps/2020/mla-beef-fast-facts-2020.pdf

National sheep numbers

as at June 2019: 65.8 million head



Source: ABS

b. Which state/ territory has the most sheep?

Source: mla.com.au/globalassets/mla-corporate/prices--markets/documents/trends--analysis/fast-facts--maps/2020/mla-sheep-fast-facts-2020.pdf

***Worksheet 4.2a** continued next page*

Worksheet 4.2a continued

Worksheet 4.2a

Farmers produce the food and fibre that we need to survive!

Farmers grow plants and animals that are suited to a particular area and the seasons in that area. Some plants are best suited to warm weather, like mangoes and bananas. Some animals are also suited to different temperatures. If farmers don't match their animals and plants to the places they are best suited, they will not grow as well and won't produce the amount of food and fibre that we need.

SOUTHERN AUSTRALIA

Some cattle breeds are suited to Southern Australia because the weather is cooler.

Types: Angus, Hereford, Shorthorn, Belted Galloway.



NORTHERN AUSTRALIA

Some cattle are suited to living in Northern Australia. They are able to live in hot conditions.

Types: Brahman, Braford, Droughtmaster, Africander.



***Worksheet 4.2a** continued next page*

Worksheet 4.2a continued

Worksheet 4.2a

What is crossbreeding?

Farmers that live in places that are sometimes hot and sometimes cold need cattle on their farms that can tolerate both conditions.

How do you think they solve this problem?

If you crossbreed 2 different breeds of dogs, like a Cavalier with a Poodle, the puppy is a mix, a Cavoodle. The puppy has some good qualities of both breeds.



Cavalier

+



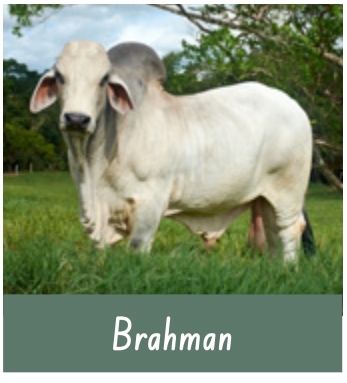
Poodle

=



Cavoodle

This is the same for cattle. If you cross a Brahman bull with a Hereford cow, the calf will be a Braford. This calf is a mix of the two breeds and grows up to be an animal that is great to have in areas that have variable climates.



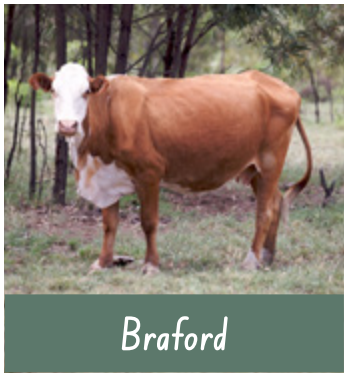
Brahman

+



Hereford

=



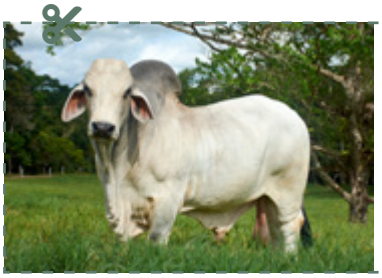
Braford

PLEASE NOTE: This activity requires single-sided printing

Worksheet 4.2b

Find my home!

Cut out the cattle breeds and use your worksheet to find out where they live. Paste them in the correct part of Australia and return them to their homes.



Brahman



Africander



Hereford



Braford



Angus



Droughtmaster



Belted Galloway



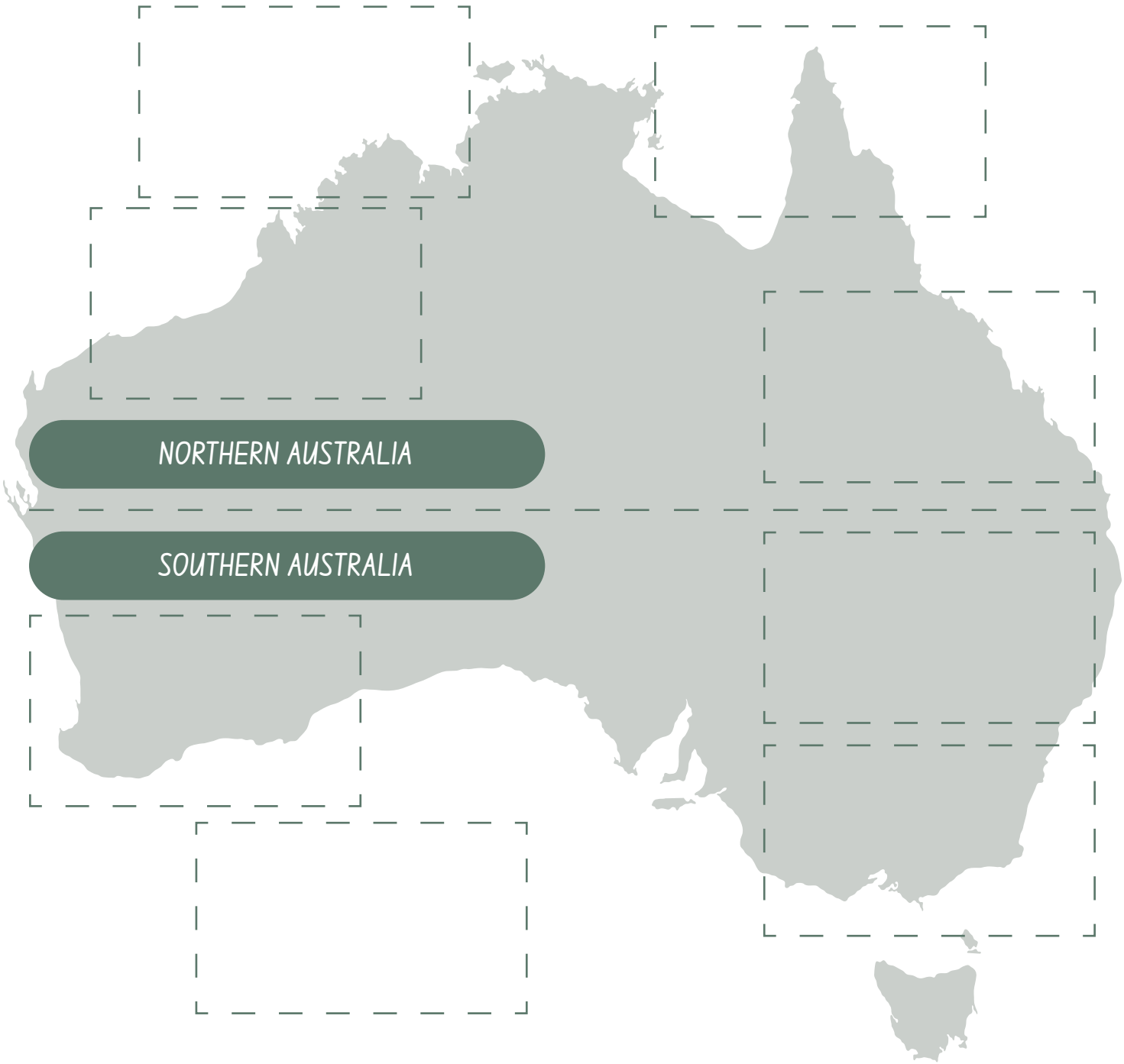
Shorthorn

***Worksheet 4.2b** continued next page*

Worksheet 4.2b continued

Worksheet 4.2b

Cattle that live in Northern Australia can tolerate hotter temperatures.
They have loose, dark skin underneath their coats and they do not sunburn as easily.



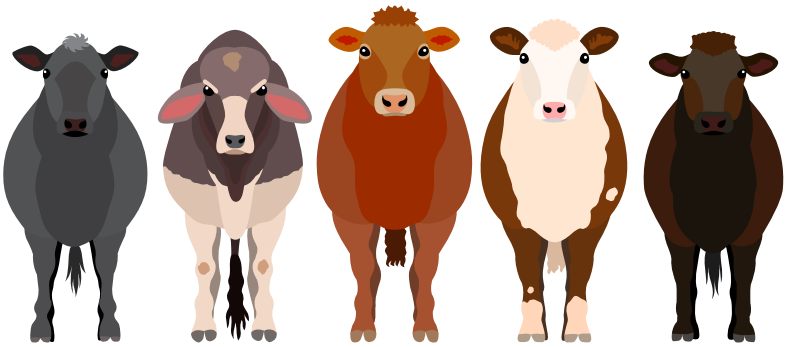
Cattle that live in Southern Australia can tolerate colder temperatures.
They have thicker coats that keep them warm.

Presentation 4.3





Worksheet 4.3a



3-2-1 What did I learn about cattle?

3 Three things I learnt about looking after cattle:

1. 2. 3.

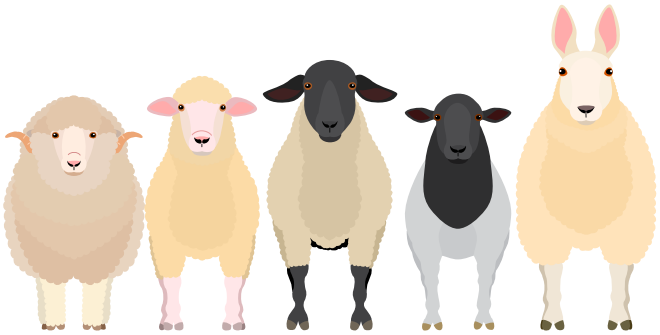
2 Two things I noticed in the video clips:

1. 2.

1 One thing I would still like to know:

1.

Worksheet 4.3b



3-2-1 What did I learn about sheep?

3 Three things I learnt about looking after sheep:

1. 2. 3.

2 Two things I noticed in the video clips:

1. 2.

1 One thing I would still like to know:

1.

Worksheet 4.4a

Animal word search

Look for the words listed below:

SHORTHORN
HEREFORD
ANGUS
COLD
HOT
BRAFORD
GRASS
CATTLE
SHEEP
BREED
TICKS
HAY

S	U	N	B	A	N	P	B	A
S	H	O	R	T	H	O	R	N
N	O	E	E	W	E	C	A	O
B	T	N	E	U	R	A	F	T
A	I	W	D	P	E	T	O	G
N	C	N	B	O	F	T	R	R
G	K	H	B	C	O	L	D	A
U	S	A	A	V	R	E	C	S
S	I	Y	E	A	D	P	L	S



Keywords

Worksheet 4.1b – Keywords scramble.

Unscramble the keywords below and recall their meanings.

rdhe — herd

A large group of cattle that live together and are kept together.

erfwlae — welfare

The health and happiness of a living thing.

eerbd — breed

Animals or plants of the same type that share similar traits.

clfok — flock

A group of sheep that live together and are kept together.

***4.1b Answers** continued next page*

4.1b Answers continued

Activity 4.1

iicBsonuds — Bos indicus

A type of cattle breed that originated from India.

ustaurBso — Bos taurus

A type of cattle breed that originated from Europe.

inurtnma — ruminant

A type of animal that has 4 stomach compartments like cattle, sheep and goats.

Activity 4.2

Where in Australia?

Worksheet 4.2a – Where are Australia's sheep and cattle found?

Cattle (million)	Sheep (million)
QLD – 11.3	NSW – 22.4
NSW – 4.0	WA – 14.3
VIC – 3.6	VIC – 14
NT – 2.1	SA – 10.6
WA – 2.0	TAS – 2.4
SA – 1.0	QLD – 2.1
TAS – 0.7	NT – 0

a. QLD

b. NSW

Worksheet 4.2b – Find my home!

Northern Australia — Brahman, Africander, Braford, Droughtmaster.

Southern Australia — Hereford, Angus, Belted Galloway, Shorthorn.

Activity 4.3

Cattle and sheep in Australia

Presentation 4.3a – Cattle in Australia.

d, c, a, d, c, a.

Presentation 4.3b – Sheep in Australia.

b, c, d, b, a, b, d.

Just for fun

Worksheet 4.4a – Animal word search

~~SHORTHORN~~
~~HEREFORD~~
~~ANGUS~~
~~COLD~~
~~HOT~~
~~BRAFORD~~
~~GRASS~~
~~CATTLE~~
~~SHEEP~~
~~BREED~~
~~TICKS~~
~~HAY~~

