



Riverland business case study

Design and Technologies (food and fibre production)

Content description: South Australian Scope and Sequence

YEAR 9	<p>Analyse and make judgements on the ethical and sustainable production of food and fibre enterprises</p> <ul style="list-style-type: none"> analyse food and fibre systems from different perspectives, for example, biosecurity experiment with one emerging and innovative technology solution investigate how digital tools could be used to enhance food production systems, for example, crop sensors
YEAR 10	<p>Analyse and make judgements on the ethical, secure and sustainable production and marketing of food and fibre enterprises</p> <ul style="list-style-type: none"> analyse primary production practices for their suitability as profitable, secure, and sustainable food sources in different regions and under changing climate conditions in Australia critically analyse the management of a food or fibre environment apply one emerging and innovative production technique to the creation of a solution

TASK DESCRIPTION

When looking at a business it can be useful to evaluate it using the triple bottom line: social, environmental and financial (sometimes referred to as people, plant and profits).

Show the short video

What Is the Triple Bottom Line?

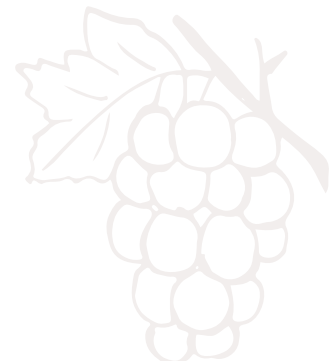
https://youtu.be/1-Ct_53XKYY?si=XgofSvhX5RiW50um to learn more.

Banrock Station and Berri Estates are two Riverland agribusinesses. While both are owned by Accolade Wines they are very different businesses. Students will select one of them and complete a case study using the focus questions to guide them.

The case study focus questions have been developed using the Structure of Learning Outcomes (SOLO) taxonomy. Discuss with the class how the questions will be allocated and the most suitable way to present the case study responses.

SKILLS CHECKLIST

- technical language
- clear communication
- accurate information
- logical, evidence based analysis
- sources acknowledged with in text referencing and a bibliography



Riverland business case study

BANROCK STATION - ECOLOGY FOCUS

Banrock Station | Premium South Australian Riverland Wine
<https://www.banrockstation.com.au/>

Unistructural questions

- **Identify** what this business does.
- **Define** who the customers are for this business.

Multistructural questions

- **List** the different habitats within Banrock Station.
- Banrock Station has an ecologist ranger.
Describe what they do for their job.

Relational questions

- **Compare** the environments in the vineyards with the wetlands at Banrock.
- **Analyse** how the ranger ecologist adds value to Banrock's triple bottom line.

Extended abstract

- Banrock Station is a Ramsar site
Banrock Station Wetland Complex | Ramsar Sites Information Service, <https://rsis.ramsar.org/ris/1221>
Imagine how Banrock Station would change if it no longer had Ramsar wetland status.
- **Reflect** on the biggest risks to the triple bottom line for this business.
- **Predict** what Banrock Station will look like in 10 years

BERRI ESTATES – AUTONOMOUS VEHICLES FOCUS

Berri Estates | Accolade Wines
<https://accoladewines.com/about/berri-estates/>

Unistructural questions

- **Identify** what this business does.
- **Define** who the customers are for this business.

Multistructural questions

- **List** the different sections within Berri Estates
- Berri Estates uses autonomous (or driverless) forklifts called Dematic AGVs. Watch this video to see them in action – even though it is a different business, it is very similar to Berri Estates - then **describe** what the forklifts do.

Dematic AGVs

https://youtu.be/v_407368LPA?si=9d_KJzo6WSVL9m6O

Relational questions

- **Compare** the use of an autonomous forklift with a traditional forklift, including a focus on safe operating procedures
- **Analyse** how the autonomous forklifts have added value for the triple bottom line at Berri Estates

Extended abstract

- **Predict** how Berri Estates will look in 10 years' time.
- **Evaluate** the sustainability of autonomous forklifts using the triple bottom line
- **Reflect** on the biggest risks to the triple bottom line for this business.