

Copyright Notice

WARNING

This material has been reproduced and communicated to you by or on behalf of **Curtin University** in accordance with section 113P of the Copyright Act 1968 (the Act)

The material in this communication may be subject to copyright under the Act. Any further reproduction or communication of this material by you may be the subject of copyright protection under the Act.

Do not remove this notice.

Acknowledgement

Here at Curtin, we are learning on Whadjuk Noongar boodja. I would like to acknowledge the Whadjuk Noongar people, and their culture and connection to country.

I offer the class's respects to the Whadjuk Noongar Elders, past present and emerging.

! Aboriginal and Torres Strait Islander users of this material are advised there may be images, viewings, stories, photos and written materials of people which could be disturbing and/or of persons who are deceased.

Last Time Noongar Seasons

Birak
Bunuru
Djeran
Makuru
Djilba
Kambarang



Figure 1. Six Seasons of the South West https://www.australiassouthwest.com/south-west-inspo/six-seasons-south-west

This week

To share knowledge about Indigenous astronomy.

How Indigenous astronomy is connected to agriculture, land management and technology used by Aboriginal people.

Gain more knowledge on just how complex and complicated Aboriginal knowledge is and how many layers of knowledge exists.

Skills: Paraphrasing and Referencing



Figure 2. One of the paintings from the Ilgarijiri (which means "things belonging to the sky" in the Wajarri Yamatji language) art exhibition. This painting is entitled Seven Sisters and is reproduced here by courtesy of the artist, Christine Collard. Photo: Curtin University.

Prepare

WATCH -Highlights from a lecture and interview with Dr Duane Hamacher from the Monash Indigenous Studies Centre, recorded at the Royal Society of Victoria in February 2018

 The Royal Society of Victoria (Jul 2018). Australian Indigenous Astronomy – 65,000 years of science. Youtube. July 11, 2018. (10 minutes & 17 Seconds).https://youtu.be/kkjf0hCKOCE

WATCH - Kirsten Banks an Aboriginal Astrophysicist The talk includes the story of the Emu in the sky

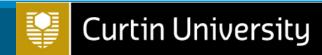
"65,000 years – The great history of Australian Aboriginal Astronomy". Youtube.
 (11 minutes and 41 seconds).
 https://www.youtube.com/watch?v=mYr7ZCn04eA

READ - Astronomy in Aboriginal culture

 Bhathal, R. (2006). Astronomy in Aboriginal culture. Astronomy & Geophysics, 47(5), 5-27. https://doi.org/10.1111/j.1468-4004.2006.47527.x



Astronomy and Stargazing in Western Australia http://perthgirl.com.au/astronomy-stargazing-in-western-australia/



Emu in the Sky

The Emu in the Sky by Barnaby Norris.

Composed of dark clouds of dust in the Milky Way, the Emu rises above an Aboriginal rock engraving in Ku-ring-gai Chase National Park, Sydney, Australia.

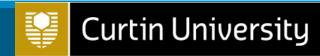
She stands upright above her engraving only at the time each year when the emus lay their eggs — an important food for the Ku-ring-gai Aboriginal people.

Unlike European constellations, which are traced out by stars, the Emu is traced by the mysterious dark spaces between the stars.

Can you identify her head, body and legs?



Figure 1. The Emu in the Sky Photo by Barnaby Norris. Australian Aboriginal Astronomy in the International Year of Astronomy 2009



Activity 1

Research an Aboriginal story of a constellation.

Covering the following points:

- What is the story?
- Which language group and part of Australia?
- What messages are in the stories? ie. lores, information about food, weather, etc.

Group 1. Milky Way

Group 2. Pleiades

Group 3. Southern Cross

Group 4. Sun and Moon (Eclipse)

Group 5. Clouds of Magellan



Figure 2. One of the paintings from the Ilgarijiri (which means "things belonging to the sky" in the Wajarri Yamatji language) art exhibition. This painting is entitled Seven Sisters and is reproduced here by courtesy of the artist, Christine Collard. Photo: Curtin University.

Activity 1 - feedback



Figure 2. One of the paintings from the Ilgarijiri (which means "things belonging to the sky" in the Wajarri Yamatji language) art exhibition. This painting is entitled Seven Sisters and is reproduced here by courtesy of the artist, Christine Collard. Photo: Curtin University.

Activity 2

In your groups, answer the questions on part 2 of your worksheet.

You will need to read:

Bhathal, R. (2006). Astronomy in Aboriginal culture. *Astronomy & Geophysics*, *47*(5), 5-27.

https://doi.org/10.1111/j.1468-

4004.2006.47527.x



Australian Geographic (2017) Aboriginal Australians are the world's oldest astronomers. https://www.australiangeographic.com.au/topics/science-environment/2017/07/a-guide-to-aboriginal-astronomy/ Image: Barbara Merritt

Activity 2 - feedback



Australian Geographic (2017) Aboriginal Australians are the world's oldest astronomers. https://www.australiangeographic.com.au/topics/science-environment/2017/07/a-guide-to-aboriginal-astronomy/ Image: Barbara Merritt

Citations – Information vs Author prominent

INFORMATION PROMINENT - USUAL

In the desert regions of central Australia the Southern Cross represents the footprints of an eagle, while the Pointers are his throwing stick and the Coal Sack his nest (Mountford 1976).

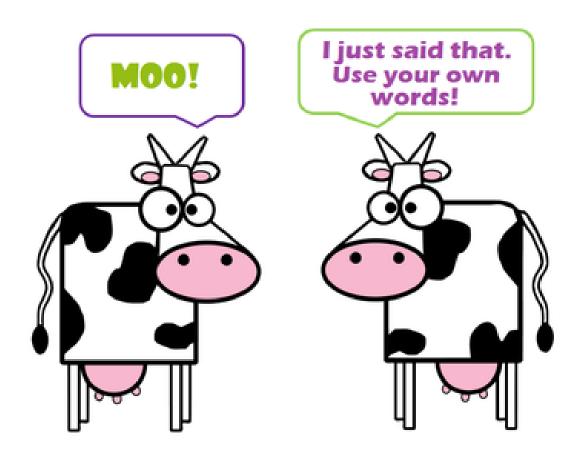
AUTHOR PROMINENT - AVOID

According to Dawson (1881) "Of such importance is a knowledge of the stars to the Aborigines in their night journeys and of their positions denoting particular seasons of the year, that astronomy is considered

QUOTES RARE - BUT WILL BE USED FOR INDIGENOUS VOICES

"And the tribes could look up to him from the Earth and see the stars which were Mirrabooka's eyes gazing down on them," (Walker 1972). However,

Paraphrasing in academic writing



Paraphrasing in academic writing

PARAPHRASING	SUMMARISING
 does not match the source word for word 	 does not match the source word for word
 involves putting a passage from a source into 	involves putting the main idea(s) into your
your own words	own words, but including only the main
 changes the words or phrasing of a passage, 	point(s)
but retains and fully communicates the	 presents a broad overview, so is usually much
original meaning	shorter than the original text
 MUST be attributed to the original source with 	 MUST be attributed to the original source with
an in-text citation and corresponding	an in-text citation and corresponding
reference.	reference.

In your groups, complete part 3 of your worksheet

Before Next Week

Complete part 4 of your worksheet

Upload the part 4 *Paraphrasing & Referencing task* to Blackboard, as part of your Portfolio Assessment.

