

AUGUST 2018 NEWSLETTER

Printed 7th August 2018

The Wiluna Wire





EVERYONE IS WELCOME!

Hello and welcome to the August edition of the **Wiluna Wire**. In this edition we have submissions from a number of Wiluna agencies and individuals. We would love to make the **Wiluna Wire** into an informative, interesting and entertaining newsletter, that includes submissions from all sections and ages of the Wiluna community. The newsletter will only be as good as the submissions we receive!

If you have any feedback, suggestions and or submissions, please come into the Shire Administration Centre on Wotton Street and have a chat. Contact can also be made by phone—9981 8000 or email at—aa@wiluna.wa.gov.au with “The Wiluna Wire” in the subject line.

Regards

The Administration



Shire of Wiluna

Notice of Special Meeting

(Section 5.5, Local Government Act 1995)
(Reg. 12(3) Local Government (Administration) Regulations 1996)

Notice is hereby given that a special meeting of the Council of the Shire of Wiluna will be held on Friday, 10th August 2018 in the Council Chamber, 70 Wotton Street Wiluna commencing at 10.00am.

The purpose of the meeting will be to consider:

1. Adoption of the Shire of Wiluna 2018/19 Annual Budget.
2. Final approval to proceed with Wotton Street Revitalisation Project.

Recreation Centre Activities for the Month

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 Drop in 3pm to 6pm Outside options 6-7pm	2 Drop in 3pm to 6pm Outside options 6-7pm	3 Movie 3pm to 5-30pm <i>Aliens at my Homework</i>	4
5 Senior golf 9am to 10-30am Senior sports arts 4-30 to 6pm	6 Drop in 3pm to 6pm Outside options 6-7pm	7 Drop in 3pm to 6pm Outside 6-7pm Dance practice 4-30pm to 6pm	8 Drop in 3pm to 6pm Outside options 6-7pm	9 Drop in 3pm to 6pm Outside 6-7pm Dance practice 4-30pm to 6pm	10	11
12	13 Drop in 3pm to 6pm Outside options 6-7pm	14 Drop in 3pm to 6pm Outside 6-7pm Dance practice 4-30pm to 6pm	15 Drop in 3pm to 6pm Outside options 6-7pm	16 Drop in 3pm to 6pm Outside 6-7pm Dance practice 4-30pm to 6pm	17 Movie 3pm to 5-30pm <i>Son of Big Foot</i>	18
19 Senior golf 9am to 10-30am Senior sports arts 4-30 to 6pm	20 Drop in 3pm to 6pm Outside options 6-7pm	21 Drop in 3pm to 6pm Outside 6-7pm Dance practice 4-30pm to 6pm	22 Drop in 3pm to 6pm Outside options 6-7pm	23 Drop in 3pm to 6pm Outside 6-7pm Dance practice 4-30pm to 6pm	24	25
26 Trash & Treasure Wotton Street	27 Drop in 3pm to 6pm Outside options 6-7pm	28 Drop in 3pm to 6pm Outside 6-7pm Dance practice 4-30pm to 6pm	29 Drop in 3pm to 6pm Outside options 6-7pm	30 Drop in 3pm to 6pm Outside 6-7pm Dance practice 4-30pm to 6pm	31	

Wiluna Remote Community School (WRCS) Training Centre News



WRCS Training Centre students with their Certificates of Achievement from Desert Discovery

The WRCS Training Centre conducted the final unit of the Certificate II in Conservation and Land Management (CALM) in late July, early August. We participated in the excellent Desert Discovery scientific survey out in the Gibson Desert on the Bimilburu IPA.

After a big drive in three vehicles out to the Gibson Desert, we established a camp at Eagle Bore, north of Mungli, and spent 6 days on the ground with the scientists. The students worked with ecologists, botanists, entomologists, bird watchers, and mammal and reptile scientists. The students visited the Warri site and got to talk with Richard House, who met Warri and Yatungka in the desert in 1971. They were spellbound by his observations of this encounter. He was at Desert Discovery with author/historian Phil Bianchi, who has written great books about the Canning Stock Route and other Wiluna subjects. Phil and Richard were both very kind to us with their time.

The students operated very well in our remote camp. They have been learning all about setting up remote camps, living comfortably and staying safe whilst undertaking remote work projects. We had a great time and ate some great meals, all prepared and cooked by the WRCS trainers and students.

The older students spent a couple of days leading big 8km bush walks out on country, explaining how Martu lived and what was important to them. Stewart Long supervised these excellent activities. Anthea Cutler conducted two workshops on bush food, also by walking through the bush. About 30 Desert Discovery scientists participated in these activities and the feedback to us was excellent and they learnt a lot about Martu. The students were amazed at what they could now do after a year of good training, and the potential for cultural tourism was obvious.

We give a big thank you to Allen Hyde and all of the Desert Discovery participants, especially for their time and support to our students. We all learnt a lot and the students were given unique opportunities to put their training into practice in a professional work environment, and to showcase their cultural knowledge to the benefit of the scientists. This activity was an excellent two-way science experience, with traditional ecological knowledge (TEK) and western science combining in a remote environment to achieve excellent on-ground outcomes.



WRCS Training Centre Cert II CALM students at the soak where Warri and Yatungka were picked up

Five students have completed their Cert II CALM course, including two VET and two DSS students. Two more students will complete the course next year when they pick up a few more units they missed this year. Congratulations to those graduating students. They've stuck with training, attended well and learnt a lot.

We commence the Cert I in Automotive Course on Monday 24 August. Alwyn will be delivering this course, which will be conducted for one week per month until December. If you are interested in participating speak to Mac at the WRCS Training Centre or Tom at DSS. WRCS VET students will be participating and DSS already have some starters, who we look forward to working and training with. This course will be run at the WRCS Training Centre workshop and commenced at 0900 each day. You will learn about fixing cars and tyres and using power and hand tools. Enrolments will be conducted during the first week.

Once again, thank you to all of those great people and organisations in the Wiluna community who are supporting us. Thank you also to our partners - Wiluna Shire, CR TAFE, DSS and Blackhams who provide valuable support and assistance. This training would not be possible without them.

WRCS and the Training Centre have both been nominated for State Excellence in Education Awards, with the school being a finalist in "Indigenous School of the Year" and Mac Jensen being a finalist in "Staff Member of the Year." This is terrific to be recognized for our work. CR TAFE has also been nominated for a training award, which included their collaboration with WRCS Training Centre in 2017 — 2018.



Nathan Redmond (DSS) receiving his Certificate of Achievement from Allen Hyde at Desert Discovery.



The Shire of Wiluna celebrated Naidoc for 2018 on Friday 5 August with a community dinner and movie to celebrate this occasion, at the new administration building in the Function Room. This gave us the opportunity to not only acknowledge the hard work that the mums, nans, aunties and sister do for the children and their families, but also to the cultural knowledge and time they share with the community and service providers of Wiluna.

The day started early for Linaire and Tamihana, as all the catering was completed in the Recreation Centre kitchen and transported to the new Administration building for the function. Thank you to all the Shire staff that transported equipment to the centre, for cleaning and preparing the function room and to anyone that shared their time and hands to make our first community event such a success.

The local community started arriving at around 5.45pm, there were lots of comments regarding the outlay of the Administration Centre, along with folks yarning about times past and good times had. Memory lane was walked down for many of the locals throughout the night

We had a big contingent of children that attended with their parents and grandparents, and Tamihana spoke with all of the children regarding what was expected if them as this event was meant to be Adults only. It was very pleasing to see that all the big people supported what was said and the children behaved wonderfully well throughout the night. The local people were well pleased with the elevator and the general comments were, the first lift in Wiluna which was used instead of the stairs which kept the children and old people safe.

Around 6.30pm the celebration kicked off with Warren Olsen Deputy Chief Executive Officer, addressing guests, and acknowledging the reason we had gathered, thanking the ladies in attendance for the contribution they make on a daily basis to their families and society on a whole. I completed the formalities by inviting the group to help develop and produce a Naidoc program that would be designed and built together for the future.

Food and conversation was shared with folks spending time yarning together, the movie "The Sapphires" was put on while we were earing, and a couple of the older ladies burst out into song with them singing to their grandchildren. The music and story was a perfect way to end the night.

Approximately 50 people attended, and it was great to see a few staff from Matilda Mine and Shire Administration staff spend the evening together with locals young and old, sharing time, food and conversation is the perfect recipe to grow a community.

*Respect the Past
&
Believe in the Future*

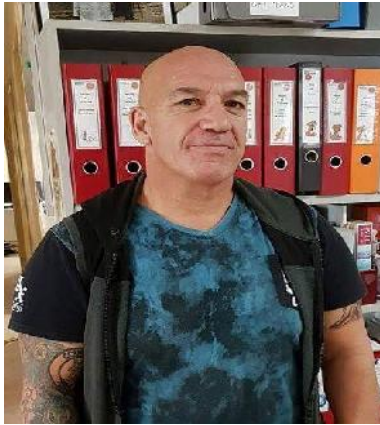


*Respect the Past
&
Believe in the Future*

Ngangganawili Aboriginal Health Service

Events Calendar

<div> <div>◀</div> <div>August 2018</div> <div>▶</div> </div>						
MON	TUE	WED	THU	FRI	SAT	SUN
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13 Lion Vision Van RFDS Dentist	14 Lion Vision Van RFDS Dentist	15 Lion Vision Van RFDS Dentist	16 RFDS Dentist	17 RFDS Dentist	18	19
20 Population Health (trachoma team)	21 Population Health (trachoma team)	22 Population Health (trachoma team)	23 Population Health (trachoma team)	24 Population Health (trachoma team)	25 Population Health (trachoma team)	26
27	28	29	30	31	1	



Recreation & Leisure Coordinator Report

The Storm Co crew blew into town on Saturday 30th June with a bus load of teenagers full of energy and the gift of giving to share with the Community of Wiluna. The group set up the Recreational Centre Sunday afternoon, prepared resources and went over game plans for the weeks activities before turning in for the night after a very long trip from Perth. Over the next four days the young people from Storm Co facilitated their own program, they had group leaders and a willing bunch of workers. Through out the week the children were engaged in art & craft Projects, face painting was a daily hit from the biggest to the smallest of children. Elmo and morning sing song was the standard start to each day. The older children in town spent the day playing basketball and volleyball, morning tea and lunch were provided by Storm Co through out the four days. Ladies Night was a highlight for Storm Co and the local ladies who came to relax the night away. Thursday lunch gave the Shire, me and all the locals the chance to say thank you to our visitors by sharing hot food and time with each other. Thursday movie night saw a full house of children and adults, popcorn was eaten and the sound of laughter could be heard through out the evening. Friday saw the Storm Co group at Gun Barrel Lager working around the property, community projects are also a part of the program. Through out the week the local children carried themselves with respect by showing respect to our visitors, they were keen to engage and enjoyed interacting with people outside their normal or friends and family. Thank you to Fatima Leaver and her adult support group that made the trip to Wiluna such a success, to the church congregation that open your doors and shared your time and family with our guests thank you vey much. Lastly to the group of young people who took time out of their school break, raised the money for food and travel costs to be part of this trip, to work so hard so you then can give it all to the children and adults of Wiluna.

I am blown away by your Wairua (spirit) and faith that see you understanding that there is always more to be gained by giving that getting.

Through out the four days the Storm Co group engaged in morning programs that ran from 10 am to 3 pm. They held Ladies Night and a basketball game on Tuesday from 5.30 pm to 8.15pm. Thursday night's moving started at 5.45pm and wrapped up around 8.30pm.

On Thursday the 12 July a group of children attended the Stephen Michael Foundation Football Carnival in Meekatharra. The started rather early for all of us at the team met at the Recreation Centre at 6.30am, by the time the stragglers made it to the Centre we had time for a quick yarn around respect and carrying yourself with dignity, the children were reminded that they were representing Wiluna and all the people from here past and present. We left for Meekatharra at 7.00am, by the time we arrived at the oval there were teams from Geraldton, Carnarvon and Meekatharra ready for the day's games to start. The group changed into there kit and after a photos were taken and Welcome to Country the games began. The children played a total of six 20 minute games with a 5 minute break between half's and games. By the end of the event some of the team were rather tired. Over the day there was improvement with each game as the children warmed to the task and got into sharing the ball as a team. The benefit for our group was the fact they got to play many games, which gave them the opportunity to gel as a team. Thank you to the parents and the Wirrpanda Foundation team that included Troy Cook and Dale Kickett for supporting this event. A big thank you goes to Robbie for coaching the team and being the go to guy through out the day. Troy and Dale chose our player for the tournament, this young man has one button and that is to go and keep going, given the opportunity he along with many others in our team have the natural ability needed to play football. Congratulations to Lerado for the effort you put in from the start to the finish, you made your family and us all proud.

On Friday the last day of term two school break, Troy and Dale along with other members of the Wirrpanda Foundation spent the morning at the Recreation Centre playing basketball and pool with the children. We had a hot lunch with our visitors who spent the rest of their time doing art work prior to flying back to Perth. The children got to have some quality time with both Dale and Troy during the day, for me having visitors relaxing and interacting with the children of Wiluna was the highlight for the entire school holidays.

On Sunday the 15th July we held our first of many Trash and Treasures, with traders starting to arrived from approximately .30am onwards, by 9.00am we had all stall holders set up and ready to go, with the first hour passing rather slowly. I decided to draw up an advertising board and placed it outside the Wiluna Traders from that point onwards we had a steady stream of locals coming down to the Centre to find some treasure. I think the smell of sausages cooking on the barbeque brought more customers than the sign at the shop. The day went off without a hitch, it was nice to see service providers and locals interacting on a more personal level, while the children spent there time looking for goodies and food to buy, or playing chasee and basketball in and around the Recreation Centre. We had between 60 to 70 adults along with 40 plus children spend time with us.

We have already been asked when the next Trash & Treasure will be held and we are looking at the end of August.

I was asked by one of the children when the treasure hunt started and I said to him "that your nana has been hunting and is headed home with her loot right now".

Cheers
Tamihana
Recreation & Leisure Coordinator.

Tamihana and some the boys
Having fun.



The children enjoying making
Muffins

The Wirrapanda Crew
taking
some time out.



The Stephen Michael Foundation—Inaugural Meekatharra Football Carnival where more that 70 children participated. The team traveled from Wiluna, Carnarvon and Geraldton to take part in the round robin tournament.





Adult Community Sunday Sports Afternoon's

Grown up time to shake off the cobwebs, bend the bones, stretch the muscles, lace up the gym boots and feel the wind beneath your wings.

Sunday 5th & 19th August 4- 15pm to 5-45pm

At Community outside courts Wiluna Rec Centre

18 years and over everybody welcome

Program runs as long as it is supported by community members

Tamihana: Shire of Wiluna Rec & Leisure Centre Coordinator

Email: rlc@wiluna.wa.gov.au



Shire of Wiluna August Movies

3rd August 2018—Aliens ate my Homework

Is based on the book by Bruce Coveille, Aliens Ate My Homework follows Rod Albright, a young boy thrust on an unlikely adventure after an alien spacecraft lands in his room. Rod must help the alien visitors save the planet from the clutches of an extra-terrestrial villain, who happens to be masquerading as the bully at Rod's school.

Rated PG—Mild Science, fiction themes and violence

17th August—Fantastic Journey to Oz

The cunning and wicked Urfin Jus decides to become ruler of the Wonderful Land of Oz, take over the Emerald City with his Wooden Soldiers, and rename it to Urfinville. He is all but ready to celebrate victory, when his plans are ruined by Dorothy an ordinary girl who ends up in Oz just at the right time. She must return home, but not before she helps her friends the Scarecrow, the Tin Man, and the Cowardly Lion defeat Urfin. But before they can defeat him, they must find out who he really is.

Rated PG—Mild fantasy themes and animated violence

**CHILDREN SEVEN AND UNDER WILL NEED TO BRING A PARENT WHEN WE ARE SHOWING
G AND PG RATED MOVIES.**

THERE WILL BE NO EXCEPTIONS DON'T SEND THE BABIES DOWN UNLESS YOU COME WITH THEM, THE LAST
THING WE WANT IS TO UPSET THE LITTLE ONES BY TURNING THEM AWAY AT THE DOOR.

Tamihana: Rec & Leisure Centre Coordinator





SENIORS SUNDAY GOLF
18yrs and over all welcome
WILUNA 6 SHOOTER GOLF COURSE

Community social event, come for a quick round or two, bring a friend or two,
no expectations, except!!!!

Take time out to relax on a Sunday Morning away.

9 am tee off and it is all over by 10.30am

Meet at the Wiluna 6 Shooter Golf Green

Sunday 5 and 19 August 2018

I have plenty of golf clubs and ball's.
Sharing Is caring so come on down and join in the fun, there will always be a
club and putter for everyone to use.

Contact Tamihana Cumming
rlc@wiluna.wa.gov.au
Reception at Shire office on 9981 8000
Shire of Wiluna Recreation & Leisure Coordinator

This program will run as long as we are getting the numbers attending. If this time doesn't
suit we can have a team discussion while walking the green or you can flick me an email



TRASH & TREASURE

**Starting: 9:00am Sunday 26 August
next door to the
Wirrapanda Foundation on Wotton St**

This event supports the Royal Flying Doctor Service

Cost is \$5.00 per table

**Come on down and get a bargain and enjoy
the great food**

**Vendors please contact Julie at the Shire Office
to book your table.**



KEEP CALM AND DO CIRCUIT TRAINING

A Community that trains and grows together stays together

Please spread the word and let's see what kind of
Movement we can get going in this little town of Wiluna.

Achieving your fitness goals just became fun.

Tamihana will be looking at how he can set up regular training times so

There is consistency.

Please feel free to contact Tamihana for further enquires on

rlc@wiluna.wa.gov.au

Or call into the Recreation Centre for a chat, the door is always open.

**Remember The battle is with yourself, if you start we will support and we will
all win together**



Gunbarrel Highway's legacy lives on 60 years after it was forged in the desert



Straight as a Gunbarrel—the highway covers more than 1,300 kilometres.

The Gunbarrel Highway is a rough desert track that stretches 1,300 kilometres from Carnegie Station in Western Australia to Victory Downs just west of the Stuart Highway on the South Australian - Northern Territory border, and was built by Len Beadell a surveyor and road builder who, with a team of eight dedicated assistants (basically bulldozer drivers, mechanics and a cook), in the 1940's and 1960's built more than 6,600 kilometres of roads which opened up the Australian inland. Len spent 8 years pushing roads through the bush.

It was the first road built to go from West to East through the centre of the continent and created access to sites needed for weapons testing at Woomera and Maralinga.

Led by Len Beadell, the Gunbarrel road construction party worked tirelessly over four years and completed the ambitious project in 1958.

The working conditions were harsh, in the searing desert heat, and all their supplies had to be carried in. Sixty years on, Connie Beadell is determined to keep her father's extraordinary creation up and running. Len Beadell was uniquely suited to the work. As a boy he was a fairly shy character and

being in the remote desert was something that was suited to him, and he had real aptitude for surveying.

Len Beadell (1923 - 1996) was born on a farm in West Pennant Hills (now a suburb of Sydney) in 1923. Len discovered his interest in surveying at the age of 12, under guidance of his surveyor Scout master, and he began a career with him on the military mapping program of northern NSW in the early stages of the Second World War. One year later he enlisted in the Australian Army and he served in until 1946.

While still in the army Len accompanied the first combined scientific expedition of the CSIRO into Alligator River country of Arnhem Land carrying out astronomical observations fixing locations of their new discoveries. Len waived his discharge for yet another term to carry out the initial survey for a rocket range later to be named Woomera. This choice led to a lifetime association with that project as a civilian till his retirement in 1988.

Len discovered the site for the succeeding Atomic testing at Maralinga and he laid out all the instruments needed to record the results.



Len Beadell during the construction of the Gunbarrel Highway

In 1956 the Gunbarrel Highway was graded



After serving in Papua New Guinea during the Second World War with the 8th Australian Field Survey Section, the Woomera project came up and Len was in the right place at the right time. Len used to say "that he would have paid them to let him do the work".

The Gunbarrel Highway was so named because Beadell aspired to create roads "as straight as a gun barrel", he dubbed it a highway simple because he found it amusing.

The conditions that Len came across, the weather and difficulties with the vehicles and pushing roads through the bush and the flat tyres, did not worry him. Len always believed he had a job to which he was important and that the difficult conditions were part and parcel of it.

Len spent a lot of time on his own bashing through the scrub doing solo reconnaissance and forward survey in his Land Rover for where he wanted to put the road, with the graders and bulldozers following behind him. He had an excellent team, that were all extremely good at their jobs and equally at home in the desert. The bulldozer would lead off first with its driver guided by Len flashing a mirror (sometimes a flare was used) from the top of the Land Rover. The rough track was then smoothed with an ordinary road grader.

Len was proud of his work and he left small aluminum plates along the way to ensure that the drivers who followed didn't get lost. Each plate was stamped with the latitude and longitude and frighteningly, the distance to the next waterhole or station.

Len went on to build a number of other tracks, including two he named after his wife and daughter. The Anne Beadell Highway and the Connie Sue Highway. Later children's names were given to the Gary Highway and the Jackie Junction.

Remarkably the roads are still there nearly seventy years later and they still present a challenge to adventurous 4WD enthusiasts wanting to cross Australia's Dead Heart.

There is one rocky outcrop in the middle of nowhere, along the Gunbarrel Highway, that is named Mount Beadell. On it is a memorial which tells the story of this remarkable man.

After 41 years including continual camping, surveying, exploring and road making, he opened up for the first time in history over 2.5 million kilometres of the Great Sandy, Gibson and Great Victoria deserts.

In 1958 Len was awarded the British Empire Medal for his work in building the famous Gun Barrel Highway, the first and still the only 1500 km link East—West across the centre of Australia.

Len wrote a number of books, amusingly most of them have "bush" in the title. The books are rich in anecdotes and stories about his adventures and they are still in print.



Map of the Gunbarrel Highway



The Gunbarrel road construction party at work. Breakdowns could take months while parts were retrieved

Len Beadell's plaques record the date and location that section of the highway was built.



Ladies' Night Out



Ladies Night was held on the 3 July at the Recreation Centre and run by the generous ladies of Storm Co. A special thank you needs to go out to Lesila for organizing this enjoyable and relaxing night. What a fantastic turn out and thank you to the Ladies of Wiluna for supporting the "Beauty Spa Retreat" evening. All the ladies that attended received a coconut hair treatment and their choice of a coca and coconut facial scrub or a coffee and coconut facial scrub. Some of the Ladies had a manicure and everyone had the pleasure of a back and hand

massage. There was also drinks and nibbles, along with a gift bags full of goodies. Thank you very much to Storm Co and we look forward to seeing you next year.



Trash & Treasure

Thank you to all the people who had a table at the Recreation Centre and thank you to everyone that came down to Scotia Street on the 15th July to have a look or take home a bargain. To the Seven Day Adventist Church a big thank you for the delicious food that you provided for sale.

It was a fun way to spend a Sunday Morning.

Keep your eye out for the next Trash & Treasure to be held on the Sunday 26th August



KEEP CALM AND DO CIRCUIT TRAINING

A Community that trains and grows together stays together

Please spread the word and let's see what kind of
Movement we can get going in this little town of Wiluna.

Achieving your fitness goals just became fun.

Tamihana will be looking at how he can set up regular training times so

There is consistency.

Please feel free to contact Tamihana for further enquires on

rlc@wiluna.wa.gov.au

Or call into the Recreation Centre for a chat, the door is always open.

**Remember The battle is with yourself, if you start we will support and we will
all win together**



Teaching and learning – the Wiluna way: Connecting to nature



It's Monday morning, 8am. A group of students have come in and asked me straight away "when are we going for our bush walk?" "Why do you want to know?" I asked. Their responses were perfect: "we want to find more bugs", "we want to find new things" and "we enjoy it". Some of you will be seeing our students going on regular bush walks around Wiluna. These weekly walks allow students to build and share their western science concepts, and traditional ecological knowledge and language. This knowledge will allow teachers to link biological science (term 3) and geography (term 4) learning with what students know and are learning about in the West Australian curriculum.

During the walk, teachers will ask students to observe signs of the current seasons (weather, plants and animals), tracks and scats, plants and flowers, native and introduced plants and animals and observe different habitats and land types. All the information is recorded (by the students) and used for follow up activities in the classroom.

International research backs up what we know at Wiluna about learning outdoors and on-country. A US report tells us that students who participated in outdoor learning 'performed significantly better on achievement tests'. It showed that those students 'expressed high interest and wellbeing and low anger, anxiety, and boredom' in comparison with other students who had been taught in the classroom alone (Randler & Kem, 2015, cited in Dillon and Dickie, 2012). An earlier study in Australia found that hands-on contact with nature at school 'can play a significant role in cultivating positive mental health and wellbeing' (ibid).



It also promotes an understanding and appreciation of the unique ecology and history of Wiluna.

Our walks and work on country are not just jaunts and easy learning. The benefits only come with planned and prepared learning activities and outcomes. In the case study below, you will see a diagram that shows what a rich learning task looks like. It involves all the learning areas, integrated and overlapping. Wiluna RCS has been in partnership with CSIRO Science Pathways for two years to support this planning and preparation to support science learning. Two weeks ago, they supported us on a trip to learn about the Mallee fowl.

Following is a case study put together to give an idea of what went into a learning-on-country activity such as this. It shows the planning involved, the people, and the connections to the curriculum, as well as the potential of basing learning on Martu ecological knowledge. We call this two-way science.

Nganamarra

A case study in Two-way Science
integrated learning



Wiluna Remote Community School



Wiluna is situated in the mid-west region of Western Australia on the edge of the Western Desert.

Wiluna Remote Community School has a population of between 70 and 105 students. Most students are Wiluna Martu. The indigenous language of the area is Martu Wangka however most Martu at Wiluna speak Aboriginal English. Wiluna School also has students of both Fijian and Tongan ethnic origins.

The CSIRO Science Pathways for Indigenous Communities program has been working with Wiluna School to develop an integrated Two-way Science learning program and build connections between the school and community.

Planning a Two-way Science program

Lauren teaches year 2/3/4 at Wiluna Remote Community School.

Anthea is a Martu teacher in her class.



Lauren and Anthea talked about what was happening on Country in Yalta Puru (cold time). Anthea told Lauren that her mother, elder Rita Cutter, wanted to show students a nganamarra (malleefowl) nest.

Planning a Two-way Science program

Lauren and Rita met in the staffroom. Rita told Lauren that nganamarra are rare these days. Rita wanted to show students where nganamarra live, how they build their special mound nests and how to tell the difference between the tracks of nganamarra, kalaya (emu) and patarta (bush turkey).



Lauren and Rita planned a trip to Country to visit the nganamarra nest.

Planning a Two-way Science program

Lauren did some research into the malleefowl. She looked at the Science Pathways Two-way Science education resources and connected the nganamarra field trip to a two-way investigation into habitat.

A Two-way Science learning program connects Aboriginal knowledge to the Australian Curriculum.

Connections to the Western Australian Science Curriculum :

Year 2: Living things grow, change and have offspring similar to themselves.

Year 3: Living things can be grouped on the basis of observable features and distinguished from non-living things.

Year 4: Living things have life cycles.

Year 4: Living things depend on each other and the environment to survive.



Before the field trip



Lauren arranged a trip to the local art gallery to look at paintings of animals and their tracks.



Before the field trip



Lauren asked students to look for tracks in the paintings.

Students identified the different animals and their tracks.



Before the field trip

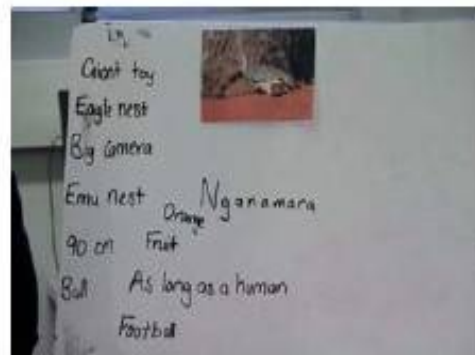


Lauren asked students what they knew about the nganamarra.

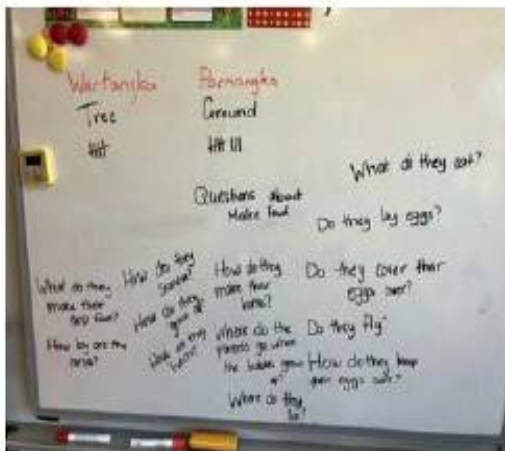
"Where does the nganamarra build it's nest?"

"How big is the nganamarra's nest?"

A nganamarra nest is as big as a...



Before the field trip



Lauren's class had done lots of work last term learning how to ask questions.

They wrote questions and predictions in Standard Australian English.

Asking questions and making predictions are science inquiry skills in the Australian curriculum.

Before the field trip



Students watched a video about nganamarra.

Learning on Country field trip



Lauren, Anthea, Rita and Mr T drove with Lauren's class to the site of the nganamarra nest. Dave from Science Pathways and film makers Fiona and Nixon came too.

Learning on Country field trip



When they arrived, Rita led the learning.

"This way!"



Learning on Country field trip



Rita showed everyone fresh nganamarra tracks.

She also found cat tracks.

Rita explained that cats ate nganamarra.

She was worried.



Learning on Country field trip

Rita showed students the difference between a nganamarra track...



...and a patarta (turkey) track.

Year 3: Living things can be grouped on the basis of observable features and distinguished from non-living things.

Learning on Country field trip



Rita led the class toward the nest.

As they got closer Rita pointed out the raking of the nganamarra.



Learning on Country field trip



They found the nest.

Rita told everyone not to stand on the nest.



Learning on Country field trip



Rita explained that the nganamarra made a nesting mound in unburnt tjul tjul (thicket) country where there was lots of leaf litter.

She said that the male nganamarra built up the sides of the nest with sand then scraped leaf litter into the middle. She said that this litter was put there to keep the eggs warm.



Learning on Country field trip



Rita explained that the nganamarra covers the mound with sand. The male nganamarra looks after the nest by moving sand on and off the litter to keep the same temperature inside. She said that the chicks scratch their way out of the nest feet first, and that the mother and father birds leave the chicks to look after themselves. Students asked Rita some of the questions that they had written in class.

Year 2: Living things grow, change and have offspring similar to themselves.
Year 4: Living things have life cycles.

Learning on Country field trip



The students wanted to measure the mound but they had no tape measure! They decided to hold hands around the nest and then measure the circle when they got back to class. They counted 9 children and 2 adults around the nest. Nganamarra numeracy!

Learning on Country field trip

Lauren had planned some activities for the students back in class.

Lauren asked students to pretend they were a nganamarra.

"What do you need to make your nest?"



Learning on Country field trip

First, Rita showed students the main plants in this nganamarra tjul tjul country. Rita identified karriya (acacia), wama (grevillea), putart, tjanpi (spinifex) and milyiri (eucalypt).

Anthea helped Lauren write down the Martu Wangka (Language) names to use back in class.



Learning on Country field trip

Then students collected the litter from under each tree to make a nest. They put the litter in a bucket.

They found a weevil in the litter.



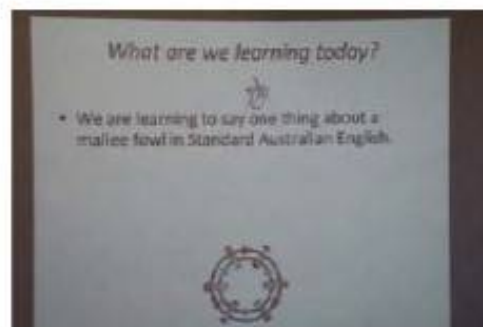
Classroom follow up



Classroom follow up

Back in class the next day, Mr T asked students to write a report for the Wiluna Wire community newsletter. Mr T used Inside/Outside Circle, a co-operative learning strategy, to practise EAL/D speaking skills.

Students had to say and practice one malleefowl fact in Standard Australian English.



Classroom follow up



They measured the circle of people using a measuring tape and found out that the nest was 4 meters across.

Classroom follow up



Students emptied the litter onto a big tarpaulin. They sorted through the litter looking for evidence of the nganamarra diet.

They picked out things that the nganamarra might eat and put this in a specimen jar.



Classroom follow up



They found evidence of seeds, seed pods and insects in the litter.

They identified leaves from each type of tree.

Rita taught the names of the trees in Martu Wangka.

Year 4: Living things depend on each other and the environment to survive.



Classroom follow up



Students sorted and classified their evidence into seeds and insects.

Sorting and classifying are numeracy and science inquiry skills used in analysing data.

Classroom follow up

They looked at the remains of insects from the litter under the digital microscope.



Classroom follow up

Students demonstrated their learning by making a nganamarra nest just the way Rita told them.



Classroom follow up



Lauren observed the students building the nest and asked them questions to assess their learning.

Classroom follow up



Students shared their learning with the rest of the school and community by building a nganamarra nest in the school yard, and writing a report for the Wiluna Wire.

Science Communication is an important science inquiry skill in the Australian Curriculum.

Year 3-4 Represent and communicate observations, ideas and findings using formal and informal representations





Two-way Science Integrated Inquiry Learning





Weekly Netball is now on every

Thursday at the netball courts next to the

Recreation Centre.

Starting time is 5.30pm

Players, Spectators and Umpires

Everyone is Welcome so come on down and have a look





THE POWER & WATER SPECIALIST

- DRILLING
- ELECTRICAL
- PUMPS
- SOLAR
- REFRIGERATION
- EQUIPMENT HIRE

AU 03687 EC 000716

PHONE 0899271215

EMAIL DONGARA DRILLING@BIGPOND.COM

ADDRESS LOT 30228 BRAND HIGHWAY WA 6525



RETAIL AND TRADE SALES

ONGA * MONO * DAVEY * GRUNDFOS * FRANKLIN * WATER BOY

LORENTZ * VINIDEX * PLASSON * CLIPSAL * RHEEM * TECO * WEST COAST POLY

TANKS WEST * YANMAH * AC DELCO * NORMA



Classic Potato Bake

Ingredients

4 Large Potatoes (*this may vary depending on the size of the potato you use*)
thickly sliced.
600ml Thicken Cream
1 cup of Tasty Cheese (*grated*)
250 grams Bacon
1 small onion sliced
Parsley or Chives to taste
Salt & Pepper to taste

Method

1. Pre heat your oven to 180 degrees C and grease a large rectangle baking dish (a large lasagna dish is perfect!)
2. Place a layer of sliced potato evenly on the bottom of the dish, then sprinkle diced or shredded ham and sliced onion over the top of the potato.
3. Place another even layer of potato slices on top then pour the cream over the potato.
4. Sprinkle the chopped parsley or chives and salt and pepper on, then lastly the grated cheese.
5. Place in the oven and cook uncovered for approximately 45 to 60 mins, or until the potato is cooked and the topping is a golden brown colour.



4 INGREDIENT SCONES

Ingredients

- ♦ 3 Cups of Self Raising Flour
- ♦ 1 Cup of Lemonade
- ♦ 1 Cup of Cream
- ♦ Pinch of Salt
- ♦ Whipped cream and jam

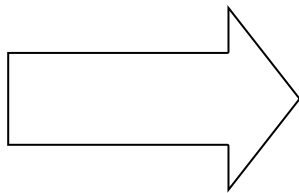
Instructions

1. Preheat oven to 200C—you want a hot oven. Line a baking tray with baking paper.
2. Sift flour and salt, into a large bowl and make a well in the centre. Add cream and lemonade. Using a knife, mix until ingredients are combined.
3. Turn dough onto a lightly-floured surface and press out gently until smooth. Cut out scones with a cutter.
4. Arrange on a tray and bake for 10-12 minutes or until lightly brown.
5. Serve with Jam and Cream.

Sudoku

Sudoku, is a logic-based, combinatorial number-placement puzzle. The objective is to fill a 9×9 grid with digits so that each column, each row, and each of the nine 3×3 subgrids that compose the grid contains all of the digits from 1 to 9. The puzzle setter provides a partially completed grid, which for a well-posed puzzle has a unique solution.

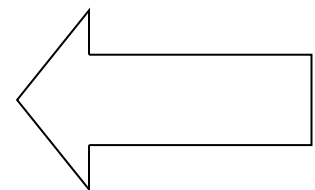
No. 1
Easy



					3	7	1	
	7		1		5			
			6					
		3	8			2	9	
5	9	8		6	7			
3		5		2		9		7
		6	7			4		5
							6	2

7								6
		6				5		
2	3		5					
		8			1			5
	5							1
		7	6	8				
	6		9	2				
				3				4
					4	3		8

No 2
Hard



Joke Page

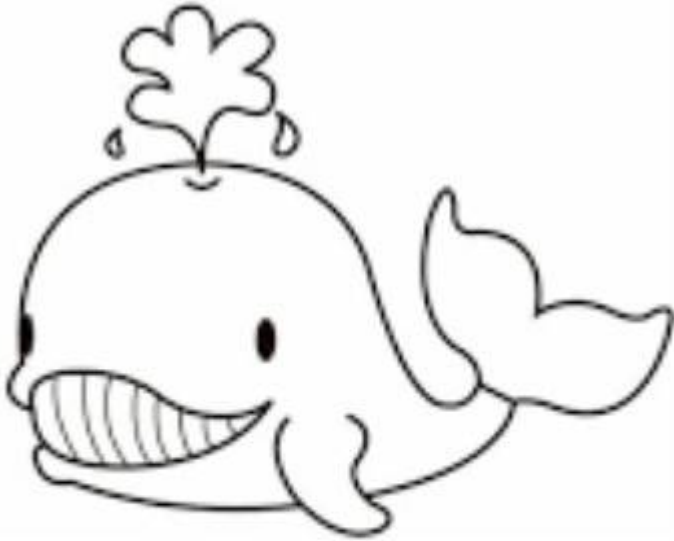
The most wasted
of all days
is the one
without
Laughter
-E.E.Cummings

**LIFE IS
BETTER
WHEN
YOU'RE
LAUGHING.**

IF YOU
LAUGH
A LOT,
WHEN YOU GET OLDER
YOUR WRINKLES WILL BE
IN THE RIGHT PLACES.



Trace and Colour



whale



horse



sheep



dragon

Sudoku Answers

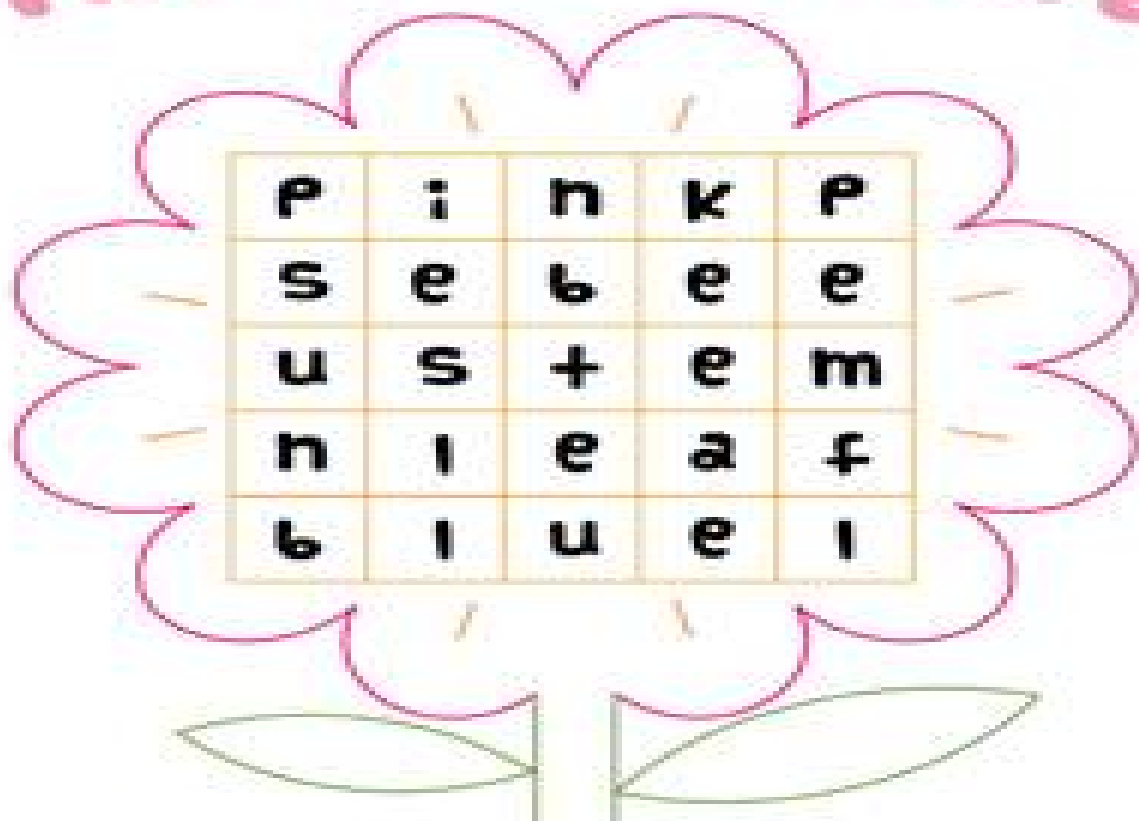
6	5	2	9	8	3	7	1	4
8	7	9	1	4	5	6	2	3
1	3	4	6	7	2	8	5	9
2	6	1	3	9	4	5	7	8
7	4	3	8	5	1	2	9	6
5	9	8	2	6	7	3	4	1
3	1	5	4	2	6	9	8	7
9	2	6	7	1	8	4	3	5
4	8	7	5	3	9	1	6	2

No 1

7	9	5	8	1	3	4	2	6
8	1	6	2	4	9	5	7	3
2	3	4	5	6	7	8	1	9
6	2	8	3	9	1	7	4	5
3	5	9	4	7	2	6	8	1
1	4	7	6	8	5	9	3	2
4	6	3	9	2	8	1	5	7
5	8	1	7	3	6	2	9	4
9	7	2	1	5	4	3	6	8

No 2

Flower Word Search



**pink
petal**

**bee
stem**

**sun
leaf**

blue

Colour By Numbers



1 = Yellow 2 = Dark Green 3 = Light Green 4 = Blue 5 = Purple



GRILLING WORD SEARCH

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

WORDS

Barbecue	Lighter
Baste	Lunch
Black	Marinade
Buns	Matches
Clean	Meat
Coal	Mesquite
Cover	Outside
Crust	Party
Dinner	Poultry
Drips	Propane
Fire	Pungent
Fish	Rack
Food	Sauce
Fuel	Sear
Grate	Smoke
Grill	Spatula
Hamburger	Steak
Hot	Tongs
Hot dog	Wings
Ignite	Wood
Light	Yard

Find the words hidden vertically, horizontally & diagonally throughout the puzzle.