Piping Pony

By xxx

Supervisor: Mr M and Mr G

School name

Year 5 Word Count: 3498





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Investigation:

The goal of my Personal Project was "To investigate the history of the Kulin Tin Horse Highway and then weld and create my own tin horse sculpture to erect on the highway". I come from a small country town located east of Perth called Kulin. Every year my town hosts a big tourist attraction known as the Kulin Bush Races. The Kulin Bush Races began on a local's farm, and 3 years later a tin horse was created to help support the annual event. The horses are placed on the 15km stretch of road to the property where the Races are held. The following year and 20years after that, these tin horses made from recycled metal are still being created, to help captivate another side of the wheatbelt community.

I was inspired to complete this project as I have an interest in the tin horses and the Kulin Bush Races. The Kulin Bush Races have always been a huge part of my life, having both my parents largely involved in it each year. My dad has previously created a tin horse and I have always wanted to design and create my own sculpture and I saw this as my opportunity.

I considered this to be a highly challenging goal that had many aspects, which required me to learn many knew skills in order to complete. I had to design a tin horse as well as search the farm for old recycled materials that would be suitable for my design. Furthermore I only knew the basic history of Kulin Tin Horse Highway and had never learnt to weld before. I knew I would have to conduct interviews to gather my research, as there isn't much information on the Internet. Therefore I would also need to learn how to correctly conduct an interview.

The Global Context for my personal project was Personal and Cultural expression. This looks at my appreciation for the aesthetic. This connects to my goal, as my product has to appeal to the community and fit in with the already existing sculptures. I needed to look closely at what would appeal to my community and blend my product in with this idea. I choose this context, as I wanted to bring together the culture of my school and my hometown, as well express myself within the sculpture.

My project had two main aspects welding and the history of the Tin Horse Highway. I had restricted knowledge on both of these topics. I knew that the tin horses were created to add another dimension to the Kulin Bush Races but I didn't know how or when it began. I also knew they were created mainly by local farmers from scrap

materials as a way of expressing themselves creatively. I had to design my own tin horse, find recycled materials, research the highway and most importantly learn how to weld.

Research:

I consulted books and interviews to build my awareness and understanding of the History of the Kulin Bush Races.

Much More than Metal is a book written by the shire of Kulin, which explains the origin of the horses and the Kulin Bush Races. It's a very reliable book and is a creditable source of information as it is current, accurate and is written by a qualified experienced individual (See appendix 1). The book explains that the Kulin Bush Races began because of unreliable and very poor seasons that left the Kulin wheatbelt community in need of a way to re-unite. Kulin also needed a way to attract tourists to the town and differentiate itself from the other wheatbelt communities. The decision was to host a Horse Race at Jilakin Rock in October 1995 (Whisson, G, 2013).

I conducted an interview with the President of the Kulin Bush Races, Graham Robertson, to follow up this information. He stated that the information was correct and additionally provided me with more knowledge. Mr Robertson told me that without this massive tourist attraction that attracts around 4,000 people each year the Kulin community wouldn't be striving. He stated, "The show has many financial benefits and this money goes back into the town". Over the last 20years \$400,000 has been raised for the school, shire, sporting groups, and community groups. The profile of Kulin is increasing every year because of this event and is helping Kulin excel as a community. (Robertson, Personal Communication, February 16th 2014)

I interviewed the Senior Project Officer, Gen Whisson who provided me with more information. Mrs Whisson is a very credible source as she is employed to promote Tin Horse Highway, has the qualification and her information is current. Mrs Whisson stated that the Tin Horse Highway began 3 years after the Bush Races in 1998. It began when a local farmer, Sergio Lucchesi, took a photograph of a metal horse he discovered being used as a mailbox. The first horse was created in 1998 and has become a well-known tourist attraction (Whisson, G, 2013). According to Mrs Whisson, the Kulin shire is continuously trying to promote the Highway through, radio talks, visitor centres and general media advertisements. It has been very successful with approximately 200 people visiting the town and the highway everyday! (Whisson, Personal Communication, January 31st 2014)

The last essential thing I needed to learn was welding. I researched this from multiple sources including information from websites and got help from an experienced professional. My father helped me gain the basic understanding of welding so I could implement these skills into my project. Dad began welding at the age of 16 and is very experienced. He advised me to use MIG welding as it was most suited to my old rusty materials and was available to me on the farm.

To strengthen my newly taught skills, I used websites to reinforce what he had taught me. The most useful site was Go Welding. This site explained different techniques of welding and reinforced to me that MIG welding was my best option. I believed this to be a credible site as there are links to TAFE Courses Australia. The website explained how MIG welding works and stated "The skill level needed compared to other welding processes makes it easy". (What is MIG Welding? n.d.) This reassured me that I would be able to efficiently used MIG welding easily with the help of dad.

Planning

Criteria:

I devised a number of criteria to help me develop and measure my project. These criterions included:

Can the sculpture made from recycled materials be identified as a [school name] bagpiper?

Is the sculpture interesting and captivating and will it appeal to various tourists? Is the general public of Kulin as well as tourists able to efficiently and effectively access the sculpture with free parking?

Does the product exceed a total of less than or equal to \$100?

To evaluate the success of my product I created a checklist (See appendix 2). It is important to evaluate the quality and outcome of my product to see if I achieved it at a high standard. These criteria were challenging to meet as it had many aspects. My sculpture needed to be large to be seen from a distance and made out of recycled materials. It was created to provide pleasure for the general public of Kulin and tourists. It needed to be interesting and captivating to provide this pleasure by having glossy colours that stand out on the road. This made it very challenging as I had many criterion to meet. To test if I was able to meet these criterions, I created a survey to measure people's reaction and test if they enjoy what I had created (See appendix 3).

Action Plan and Self-Management:

An action plan was essential to help develop my ideas and assist me in meeting deadlines (see appendix 4). There were a number of vital steps I had to include to design, create and evaluate my product, these include:

In order to complete my research, I had to conduct two interviews, research the Internet and read books in relation to the Tin Horse Highway. I planned to accomplish all of this over the summer break term 1. I needed to learn about the past and the present history of the Kulin Bush Races.

I had to learn many knew skills, such as welding and how to use all of the required equipment. I aimed to learn the basic skills of welding in the Term 3 holidays in October . This enabled me to begin the process of my product in the following holidays and the mid term break.

Before creating my product I was required to create 3 different designs. I planned to design these on the Christmas holidays and then create a final one before I started creating.

My project needed numerous materials, which I planned to gather from our farm on the Christmas holidays. I also needed the MIG welder, which dad was able to supply.

My ability to be organised was a key skill that I knew I would need to ensure my product would be completed on time. I devised an action plan to assist in managing my time. This helped me organise each section of the planning and research of my product. I also had to ensure that when I was home on the farm, we worked hard on getting all the physical work completed. (This was challenging, as Dad was never available.)

There were significant challenges I had to face in the design, research and product stages of my project. One of the main challenges was that being a boarder; I was not home very often to physically complete the sculpture. I had to organise myself to work on my project during the Christmas holidays and also the mid term break. I ensured that I had followed my action plan by sourcing all materials in the Christmas holidays, welding on the mid term break, painting on the holidays. By persevering I was able to meet this challenge and others, in an organised and effective way.

Reflection helps me as a learner in a number of ways. Reflection enabled me to think about what I had to do, changes I needed to make and ways to improve the quality of my product. For example I was able to learn from what I had done and improve to be able to move forward and transfer the new knowledge I had learnt from.

Taking Action

Reflecting on my finished product, I can conclude that the project is of an excellent and high standard. I achieved the goal to an excellent standard because I completed the elements of the goal statement. My goal was "To investigate the history of the Kulin Bush Races, then weld and create my own Tin Horse to erect on the highway". My finished product required me to investigate the Bush Races thoroughly, which I did using a range of credible sources. I then created and welded a sculpture, which was of a high standard. This is because it was placed on my grandmother's farm on the highway. The sculpture was made from recycled materials and can be identified as a [school name] bagpiper, which I know as my survey results sate. It is also very interesting and captivating, and appeals to various individuals. I have proven that these criteria are met as I conducted a survey asking people of their opinions on my sculpture. Various amounts of people completed the survey and they all stated that the tin horse was very aesthetically pleasing. They couldn't identify that the metal was recycled as I had polished and painted at a high level, but it can be proven as the metal has writing on it and dents in some areas. The other aspect of my project was when creating the product I was very mindful of the cost. I can confidentially say that this was achieved as I only purchased the paints and dad already had some of the required colours.

The global context of my personal project helped me to shape the direction of my final product and helped me explored my appreciation of the aesthetic. I learnt that I had to be aware of my environment, of the other sculpture, in the creative process and I had to included this is my design (See appendix 5). So the global context shaped the actual design and the finished product. From what I explored in that context I was encouraged to look at features such as the appearance and the aesthetic pleasure it provided. The main feature I focussed on to achieve this were: the colour, size, detail and the type of metal. During the creation of my product I altered my sculpture to better suit my global context, by expressing myself through my product to create a sculpture, unlike any other.

Thinking skills, helped to be able to critically evaluate sources of information. To do this I learned that looking at the credibility and reliability of information was vital. Credibility is the author's qualification and experience. This allowed me to use high quality resources such as interviews, websites and books, which gave me the best information possible. Reliability is how good the information is in terms of accuracy,

biased and currency. An example is the interview as I was supplied with current non-biased information. The people I interview also had qualification and play a big role in the Kulin Bush Races. I learnt that the critically evaluation of sources is vital because it provided reliable information that helped me make good decisions about the process and the product.

Effective communication was crucial throughout my project. I communicated in many ways during my process such as emailing, meetings and direct contact. I learnt many vital skills about communication that will be very beneficial in the future. I learnt how to appropriately email teachers and other adults using formal language and the correct layout (See appendix 6). I also learnt how to communicate an interview in person and on the phone. When I conducted an interview over the phone it was easier to take notes however in person I was able to gather more information. I believe that communication helped in creating and researching my goal and wouldn't have been as successful if I hadn't learnt some of these skills.

Collaboration skills are focussing on how I was able to work with other people. I was able to collaborate in a number of ways with people such as, my mentor, supervisor and interviewers. I listened to my supervisors and actively took notes on their helpful advice. I received meaningful feedback that helped write my report and was able to effectively work with them in many ways. My mentor and I were able to negotiate well on ideas that we had on my product. For example Dad suggested making a panama. I didn't see it as a good idea, however we negotiated and I was able to see how it would add depth to my product. Good collaboration skills require negotiation, which helped me with my project because I was able to collaborate with others effectively to improve my design.

Reflection

My goal was To investigate the history of the Kulin Tin Horse Highway and then weld and create my own tin horse sculpture to erect on the highway. I am very proud of my end product, as I believe it is a reflection of who I am and shows what I am capable of.

To evaluate the success of my product I assessed it against my design specifications. My first specification was that the sculpture must be made from recycled materials, and be identified as a [school name] bagpiper. This was achieved as I painted the sculpture in the school colours, blue, white and green. I created the well-known panama and I also painted a version of the school logo on both the panama and the blazer to again show that it represents the school (See appendix 7). All of the materials I used were recycled from around the farm. This took longer because I needed to remove the rust, to insure it was of a high quality. I also believe the recycled materials made it more authentic. I have shown my sculpture to various people who have been able to recognise it as a school bagpiper

The sculpture had to be interesting and captivating to appeal to tourists at a high quality. By making the sculpture over 2m tall, it is able to stand out from a distance. The colours are bright and glossy to increase the visibility of the sculpture and improve the overall quality. By using recycled materials, this has added another dimension to my final product. For example the bagpipes are made from an old car exhaust, which some people will be able to identify and recognise my creativity (See appendix 8).

I wanted to spend no more than \$100 on my product but it still needed to be of a high quality. The only cost was for the rust guard and paint as all the materials were recycled and found on the farm. The initial purchase of the paint was over \$100, however there was a large amount of paint left over, which dad will use around the farm.

The last criterion was harder to evaluate as my sculpture is yet to be placed in its location on the Tin Horse Highway. I have chosen a location on my great grandmothers farm, which I tested if it was able to meet the criterion. The area it will be placed will have no cost to people who wish to stop and take photographs and is easily accessible.

I used to think that my global context, personal and cultural expression was about expressing yourself through creativity and the appreciation of the aesthetic. Now I

understand that my global context has more meaning, as it includes both the appreciation of the aesthetic but also includes the knowledge I have gained from researching the Tin Horse Highway. I also believe that it is about expressing yourself by creating a product that represents you and your beliefs. I created a school bag piper as I tried to combine both of my communities, the boarding house and school with my home on the farm.

Before beginning my project I used to have many negative thoughts about the task. I thought that welding was extremely difficult and required a large amount of skill, technique and time. Now I know that with the help of a mentor, it's not as I once believed. The construction of the project took less time than I had originally planned, however the painting took considerably longer. Welding is quite a simple task that doesn't require a large of amount of skill, but patience and time. I used to be really afraid of the welder as many sparks would fly off, but I now know with the safety of the protective gear you hardly feel anything. From this project I have learnt many new things and my original beliefs of this task have changed because of the understanding I now have. The new understanding of how much time and effort goes into creating a sculpture of this size and quality has made me appreciate the art of welding further.

During my project I developed as a learner, which helped me to complete my project to a higher standard. One key skill I developed was being a risk-taker. This means that I was able to approach unfamiliar situations with confidence. I used this skill in many situations especially with learning to weld. I am able to use this skill in unfamiliar situation in the future including camp. Another key skill was being open-minded. I was open to others perspectives and views on my sculpture. I took their advice into consideration, as well as altered my product due to my research. I asked a wide variety of people during the creation of my product, on their thoughts and considered their points and altered my project accordingly. My mum suggested I change the shade of brown paint. I respected her point although I didn't like it because it would take more time to paint. However the end result was of a higher standard because of the change. I was also able to inquire effectively. As I showed an interest in my product and I was able to be an active independent leaner. I am able to transfer both the skills I learnt from inquiring and open-minded and use them in every assessment during school, by believing I can do it and show curiosity in the subject to achieve high levels. As a result of the IB learner profile I was able to develop as learner because I was able to take risks to improve the quality of my project. I have learnt about myself and I have gained new skills and confidence so I can complete any task in the future.

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Appendices

Appendix 1: The man research I gathered from the Much More Than Metal Book. The book highlights the main important information about the event.

How did the highway come about:	-Originally and still the tin horses are built by the farmers
	along the route to the track to promote the event
	-Kulin Bush Races began in 1995
	-Tin Horse Highway began 3 years later in 1998
	-Once just farmer rivalry, trying to do better than each other,
2	become of other most important things about the KBR
	-Massive tourist attraction
Why did the KBR begin:	
	-Poor seasons, needed to reunite the community
	-In 1995 Kulin held the first KBR at Jilakin Lake and Rock
	-Differentiate itself from other towns
How it's Changed, from the	-Purchased infrastructure
beginning?	-Larger quantity of bathrooms and shower
EG: How its easier infrastructure	-Bigger camping grounds
	-In general the quality of infrastructure

Appendix 2: This is the checklist that I created for the design criterion.

Criteria's	Test method	Achieved
Form	Can it be identified as a school bag piper?	47
	Is it made from recycled materials from my farm?	
Function	Does the sculpture appeal to various people and do they enjoy it?	
	Is it interesting and captivating to look at?	8
	Will it attract tourists or locals along the Kulin Bush Races Tin Horse High way?	
User/audie nce	Is the general public of Kulin as well as tourists able to efficiently and effectively access the sculpture with free parking?	
Cost	Does the product exceed a total of less than or equal to a cost of \$100?	

Appendix 3: Results from the survey I conducted to gather results on my product.

Criteria's	Test method	Beatrice Manser	Isla Cooke	Ms Lengdon	Ms Andrews	Georgia Morrell	Tracey Noble	Jarron Noble	Irene Edwards	Joesette
Form	Can it be identified as a school bag piper?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Is it made from recycled materials from my farm?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Function	Does the sculpture appeal to various people and do they enjoy it?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Is it interesting and captivating to look at?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Will it attract tourists or locals along the Kulin Bush Races Tin Horse High way?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

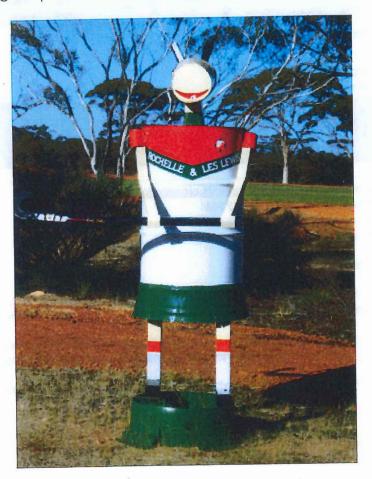
Appendix 4: Action Plan

Action	When?	How?
Organise to meet with supervisor	November 2 ^{rst}	EmailMr M and organize to meet with him to discuss what I am required to do.
Find a mentor	November	Ask dad if he would like to be my mentor than ask Mr M if my dad is able.
Learn the basic techniques of welding	Friday 11 th October	Learn how to weld and the safety requirements needed. Practice by welding small scrap metal objects to a metal rod.
Take Photos of the horses on the Tin Horse Highway.	Saturday 12° October	ake photographs of the already existing and femous tin horse sculptures that are
Take photos of the bagpipes	Thursday 7" November	situated along the highway. By taking photos of the school bagpipers' uniform as we las the school uniform with S playing the bagpipes.
Gather recycled materials from around the farm	Saturday 28 th December	Drive around our farms scrap piles and gather materials that would be suitable to use for the sculpture.
Design ideas for my sculpture	Friday 3 rd January	On graph paper design and create ideas for my sculpture, also choose ideal colours that would suit my design. Include all features that I wish to be on my horse and label pictures.
Research the highway	December and January, February Friday 31" January	Conduct interviews with representatives from the Kulin Bush Races. Read the books, brochures, websites, and watch the YouTube links and

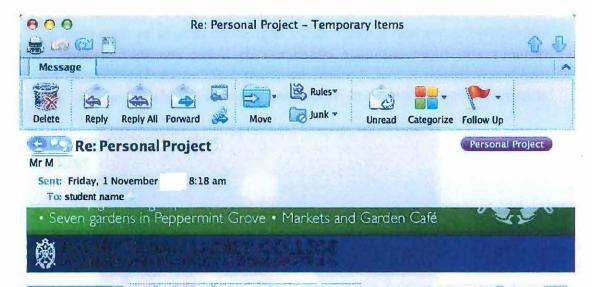
Interview Graham Robertson	Sunday 16 th February	documentaries that are available.
Create a final design	February 28th	By looking at the sketches that I drew earlier and deciding on a final one or combining them together.
Begin welding sculpture	Saturday 1 st and Sunday 2 nd March	By welding the recycled materials that I gathered to the shape of my desired horse, on the long weekend.
Paint sculpture with rust guard	Monday 3 rd March	Spray paint the sculpture with rust guard to insure it doesn't rust.
Complete first coat of paint	Saturday 22 ⁻⁴ March	Apply the first coat of paint to the sculpture using; blue, green, white, brown and a paintbrush.
Paint last coat of paint	April holidays	In the holidays, compete last coat of paint to sculpture.
Weld the panama onto the horse	April 27 th	Weld the panama onto the horse's head.
Paint the pleats in the skirt	April 27 ^e	Using masking tape, tape out where the blue will go and do first coat. 2 if needed
Make any final adjustments	June holidays	in the holidays of term 2, make any final adjustments so that it will be perfect to go on display in term 3.

Appendix 5: Image of my inspiration

This image provided me with inspiration as it showed me how to engineer a tin horse sculpture to be able to withstand any weather condition. It highlighted to me how it needs to be large to be able to be seen from a distance with bright colours to attach tourists. It also provided me with ideas on materials to use. It made me aware that I needed to consider the already existing sculptures to make mine different but also simular to fit in.



Appendix 6: I leant how to formally write an email to my supervisor using appropriate language.



From: Student name>

Date: Thursday, 31 October 7:17 PM

To: Mr M (supervisor's namel>

Subject: Personal Project

Dear Mr M,

Thank you for agreeing to be my supervisor for my personal project. I really appreciate your interest in what I am going to be doing for the next ten months.

I would like to arrange a meeting with you at your earliest convenience so that I can discuss my goal and share with you what I intend to do with my project.

Can you let me know a convenient time, date and place where we could meet.

Thank you.

Kind regards student name:)

Appendix 7: The well-known Panama



Appendix 8: Final creation of the Piping Pony.



Research:

Resource details	Guiding	Notes	Source
	Questions		Evaluation
Record as many bibliographic details here as possible. This is so		Record your notes here. Use bullet points, key words, pictures etc. What ever helps you.	Evaluate your sources as you go as this is
you can find the source again as		2	important for your report
well as be able to cite the source in			later. You can look at:
your Bibliography later.			Accuracy, Authority,
			Audience, Bias, Currency, Relevance
Kulin Bush Races website		- http://kulin.wa.gov.au/main/tourism/tin-horse-	Accurate, non biased
		tourist-route/	information
		- http://kulin.wa.gov.au/main/tourism/tin-horse-	published on the
		highway/	Shire of Kulin
		 Many useful information 	webpage found on
		 (Stated in interviews and Much More Than 	Google
		Metal Book)	
Book "Much More Than	How did the	-Originally and still the tin horses are built by the	-Written by the
Metal"	highway come	farmers along the route to the track to promote the	people of Kulin
	about:	event	
		-Kulin Bush Races began in 1995	
		-Tin Horse Highway began 3 years later in 1998	
	,	-Once just farmer rivalry, trying to do better than	
		each other, become of other most important things	
		about the KBR	
	594	-Massive tourist attraction	

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	KBR begin:	-Poor seasons, needed to reunite the community	
ō		-In 1995 Kulin held the first KBR at Jilakin Lake and Rock	
		-Differentiate itself from other towns	6
	How its	-Purchased infrastructure	
	Changed, from	-Larger quantity of bathrooms and shower	
	the beginning?	-Bigger camping grounds	
	EG: How its	-In general the quality of infrastructure	
	easier		
	infrastructure		٠
Interview with Gen Whisson	When did the	-Tin Horse Highway 1998	-Senior project
	tin Horse	-Kulin Bush Races 1995	officer
	Highway		
	begin?	3 year later	
	How long was		
	that after the		
	Kulin Bush		
	Races?		
	How did the	-Sergio took some photos of a metal horse????	
	Tin Horse	-Wife Mary thought it would be a good way of	
	Highway	promoting the Kulin Bush Races	
	begin?		
	27	-Started out as a local campaign	H
		-Now it is a well know tourist attraction	
	How/Why is	-Continuing to be promoted as it is a tourist	12
	the tin Horse	attraction	

	*	
	2 3	
Promoted through: -Documentary on webpage -Television advertisement -Media advertisements -Radio talks -Caravan stickers -Visitor center (books and brochures are available all around the wheat belt/WA)	-Locals -Tourists (as long as they are attending the Kulin Bush Races) -People all over WA Who specifically and the horse they created: Valley-Sheering horse Capel-Medical Horse Perth/England-Sea Horse German workman's-Beer Horse	-2005 -Prize (changing every year up to \$1,000 -Added dimension -Promoted to Kulin Bush Races -Becoming one of the most popular drives in the wheat belt
being promoted? The profile being increased	Who has created the tin horses?	When did creating Tin Horses a competition? And Why? Other Notes of

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	from Gen	-Tourists are always ringing to find out more -Kulin community is very proud of what they have accomplished as its a very big part of theirs and the towns identity -Know as an 'Out Door Gallery' -The towns working hard to promote it -Investing in visitor centers (get tourists to stay) -Around 200 visitors take a drive on the highway everyday -Souvenirs are sold at the Races as well as in the town throughout the year -On the 15* February a short movie is being released promoting -1* August is know as the horses birthday and yearly	
		tne norse s are done up -Re-painted -Cleaned up -Fixed	
-Article		-Junk become art	
Interview with Graham Robertson	Why did the Kulin Bush Races begin?	-To increase the profile of Kulin -Enables people to identify the town -Bring people to the town and wheat belt -Because of the tough seasons, needed money	-President of Kulin Bush Races
*	What does the Kulin Bush Races do with	-Money goes back to the community -Ambulance, school, childcare, shire, build a house to sell at a profit	

10		

	the money		
	raised?		
	Who is	-Generally/mainly just locals	
	involved?	-Other community clubs	
		-They befit	
		-Get the money they raise	
		EG:	
		Dudinin tennis club does gate	
ž.	10	Pingurp	
		Lions club does toilets	
	How has the	-Costly for TV ads	
	profile of the	-Have radio ads	
	Kulin Bush	-Flyers	
	Races been	-Positive words of mouth from other visitors	
	increased?		
	Other notes:	-Started as increase in profile	
		-Big finical benefits	
	8	-\$400,000 back to community over the years	
2		-Own infrastructure (no cost)	
		-Progressing each year to make it bigger and better	
Welding:	What is	-Art of joining metals together	-Reference to TAFE
Go welding.org	welding	-Metal is joined by welding	course's
		-A very valuable technologies that plays a big role in	
		the world today	in the
		-Comprised of three main ingredients, which are	
		required to join the metals.	
		-An electrical power source	

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Project

MIG welding TIG welding		-MIG welding- Metal Inert Gas welding -Developed in the 1940's -Doesn't require much skill -Combines 2 metal object together -Gas Tungsten Arc Welding (GTAW) -Developed in the 1940's -Requires 2 hands	
MIG weld		MIG welding- Metal Inert Gas welding Developed in the 1940's Doesn't require much skill Combines 2 metal object together Gas Tungsten Arc Welding (GTAW) Developed in the 1940's Requires 2 hands	
TIG weld		Developed in the 1940's Doesn't require much skill Combines 2 metal object together Gas Tungsten Arc Welding (GTAW) Developed in the 1940's Requires 2 hands	
TIG weld		Doesn't require much skill Combines 2 metal object together Gas Tungsten Arc Welding (GTAW) Developed in the 1940's Requires 2 hands	
TIG weld		Combines 2 metal object together Gas Tungsten Arc Welding (GTAW) Developed in the 1940's Requires 2 hands	
TIG weld		Gas Tungsten Arc Welding (GTAW) Developed in the 1940's Requires 2 hands	
	1 1 1 4	Developed in the 1940's Requires 2 hands	
	1 1 4	Requires 2 hands	
	1 +2		
	-	-One holds welding machine other holds the wire	
		that welds the joint together	
	•	-More difficult as 2 hands a required	
		-Produces a high quality weld	
Differences		-Amount of hands required	
between MIG	U	-Amount of skill required	
and TIG		-MIG is much less than TIG	
welding		-How the filler metal is added	
		MIG-apart of the hand held gun	
		TIG-have to feed it in as you weld	
Go welding.org	How does MIG	-Attach the ground clamp to work then power source	
work		is turned on and finally shielding gas is turned on	
	-	-Hit the trigger once everything is in place and the	
		MIG gun will start feeding the wire	
		-When the wire hits the metal the object will weld	
		together	

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	Positives of MIG	-Welds are clean with little smoke -Cheap and fast -Skill level needed compared to other welding processes make it easyExcellent for spot and tack welds
	Negatives of MIG	-Welder cannot go to far form MIG machine -Need a bottle of gas -Wind can be an issue outdoors
		-Need a clean joint and a mother earth
Safety care		-Video on the safety requirement
Website		



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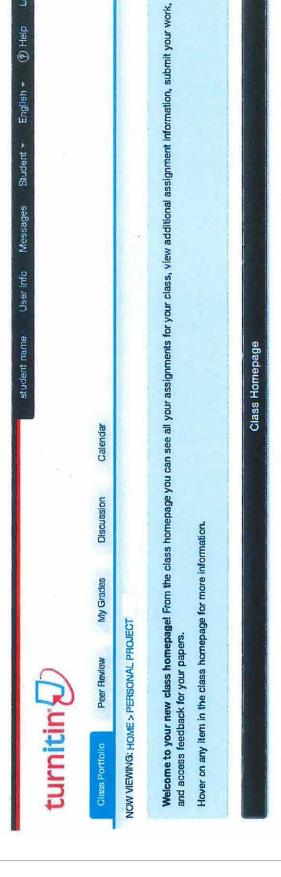
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