

Grade: Merit

For Merit, the student needs to develop product or spatial design ideas using visual communication techniques in response to design influences.

This involves using visual communication techniques to draw on the characteristics (design elements) of source materials to explore the function and aesthetics of the student's own design ideas.

In this exemplar, there is evidence of a design influence from te ao Māori with research into Pa, this is supported with images and annotations describing the components of the Pa. There is evidence of research into the work of Nicholas Dalton, a noted NZ architect, supported by images of his work and annotations describing it. A rationale is provided for both influences, through the collated images and the descriptions of each design influence.

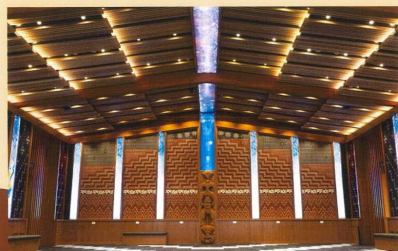
Design elements are identified for each influence through the descriptions, and are drawn on in the generation of shapes and forms. A range of elements are drawn from both design influences and experimented with, explored, and progressed in the subsequent design ideas. Both function and aesthetics are explored and experimented with in the subsequent design ideas. Visual communication techniques of 2D and 3D sketching include use of tone and colour.

To meet the 'extend' criteria for Excellence, evidence must demonstrate the use of visual communication techniques to draw on the characteristics of source materials, and further application of divergent thinking to regenerate new design ideas is also required. This could be shown by not refining a chosen design idea, but shifting focus to the re-generation of new forms to create different rooflines and spaces within the shade structure.

While there was one research source link to work by Nicholas Dalton, in future the source of all the research images should be acknowledged and recorded in order to meet the NZQA requirements for authenticity. This also serves to recognise authorship, whakapapa, and heritage.

Merit

NZQA Intended for teacher use only



How did the designers incorporate different uses for the wharenuui?

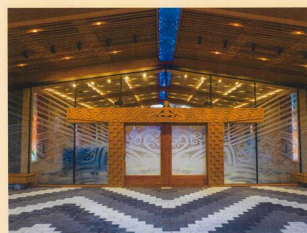
The wharenuui in the pa is an important part of the marae. This wharenuui is a place that provides us many services, such as a teaching space with TV screens under panels, and empty spaces under chairs to hold students items. another use of the wharenuui is for important events, such as powhiri's, funerals, because of the grassed area in front of pa that guests can be welcomed onto. We as designers can learn how to provide multiple uses for our inspired shade structure.

Pa Research



How can we creatively reference the past in design?

The interior of the Pa is filled with elements that relate to maori culture and also the Waikato area. An example of this is the floors, they are mix of green, evergreen, brown and grey hues. These colours have been chosen by the designers, because of how years ago forest went right through the pa, and our school area. Years later while the ancient forest is long gone, this shows how designers can still add elements to designs that symbolise the past to designs.



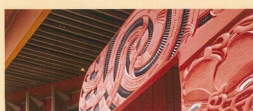
This is the **Atea**, The open courtyard in front of wharenuui, a space for formal welcoming.



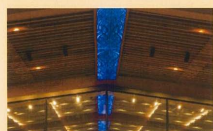
This is the **Maihi**, they are bargeboard that extend from the koruru, representing the arms of an ancestor.



This is the **Raparapa**, decorative carved ends of the barge boards, they symbolise the fingers of an ancestor.



This is the **Tahuhu**, the ridge beam running along the center of the ceiling, it represents the spine of an ancestor.



Research Labelling The Pa

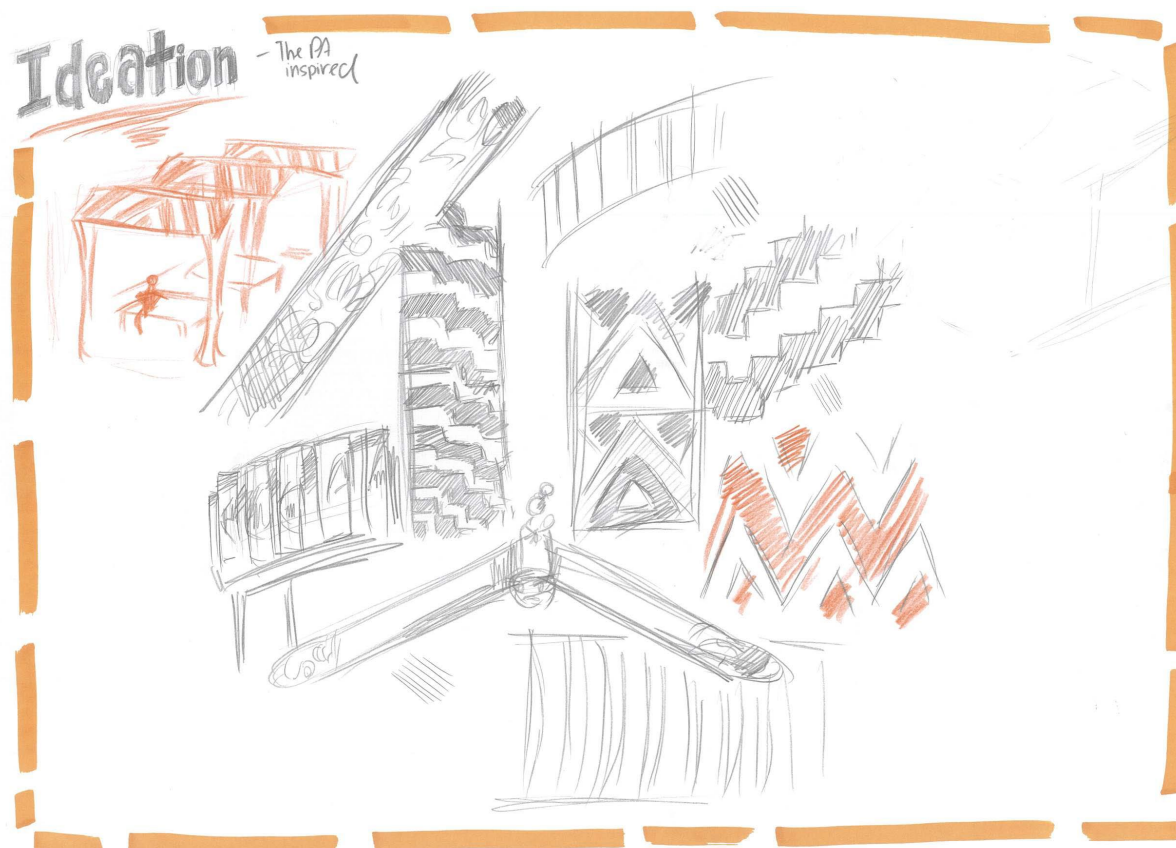


All around the Pa, there murals of some maori gods. The certain god were chosen because of how they effect how students approach every day learning.



Why did I choose the Pa?

I chose the Pa because of how it is able to be used as a learning space, while also being able to incorporate important parts of maori culture and design.



Research Designer

Nicholas Dalton

Nicholas Dalton is the founder of TOA Architects and a talented designer. He grew up in Rotorua, and attended Victoria University, and graduated with a Bachelor in Architecture with first class honours. Nicholas belongs to the iwi of, Te Arawa, Ngāi Tahu, Tūwharetoa, Ngāti Whakaue, Ngāti Pūkiao, Pākehā. Nicholas main goal as a designer is simple, "to craft projects of Aotearoa"

Function

All designs need to be functional and fit for purpose, but also give back to the environment, and Dalton's designs are no exception. He uses sustainable materials, but also durable ones. These are able to allow him to be able to create creative designs, and are also the best materials to keep his designs standing. In terms of keeping his designs environmentally friendly, Dalton uses materials that are strong and durable, but also sustainable for the environment, such as wood. Dalton always thinks about the longevity of his designs, he always think about how a design will effect, the environment and people in the future, and how the materials he uses will effect that. Dalton also often incorporates nature into his designs. For example, planting ferns at the bottom of a support structure. His use of giving back to natural world with every design is what makes his designs to sustainable.

Proportion

Dalton incorporates big glass window in his houses. This give the illusion that his houses are more spacious than they actually are.

Colour

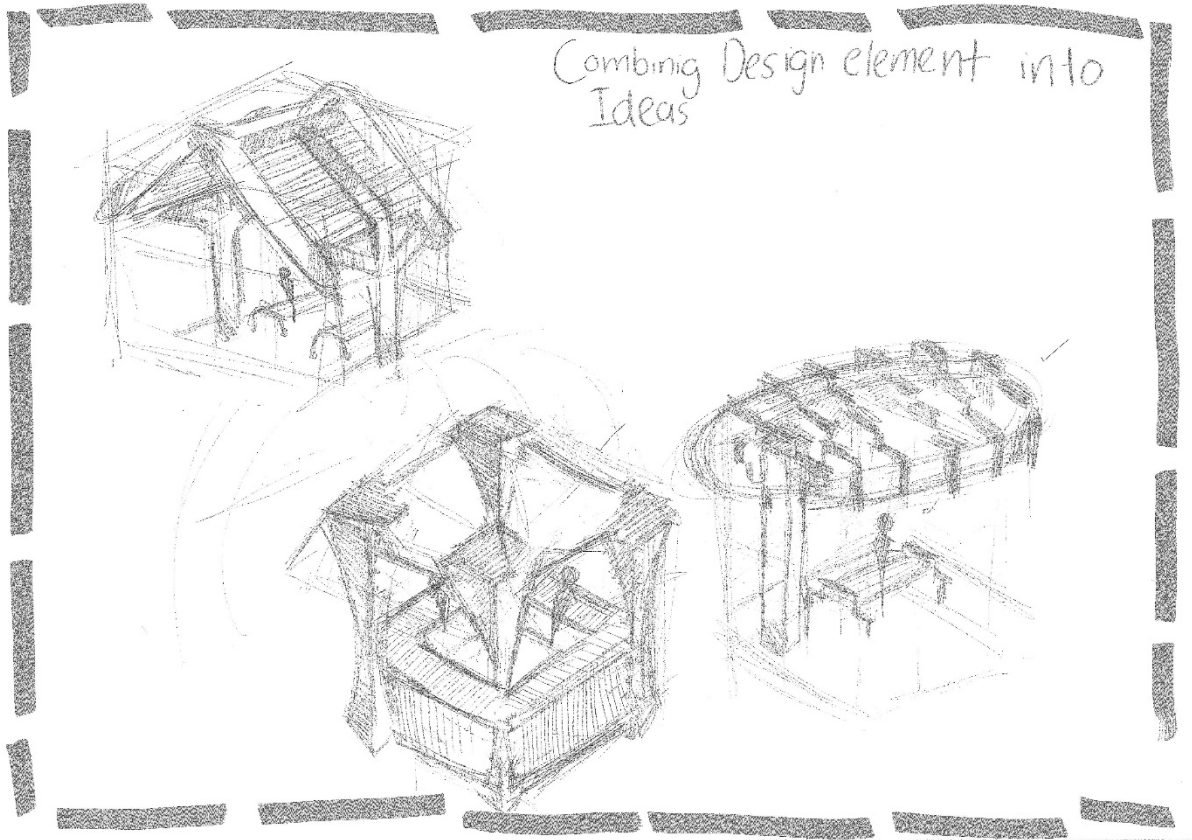
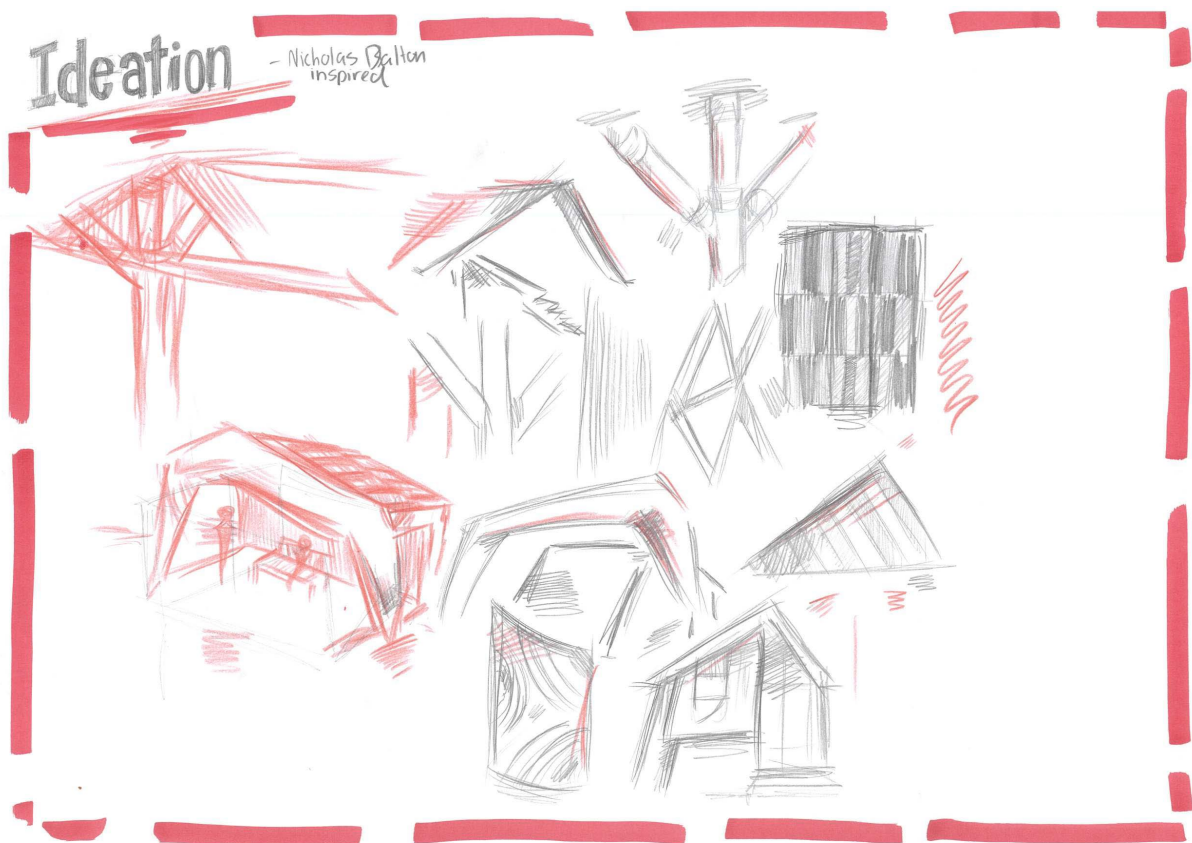
Dalton often uses traditional colours often seen in Maori architecture, such as, browns, reds and greens all natural colours that help pay homage to his Maori culture.

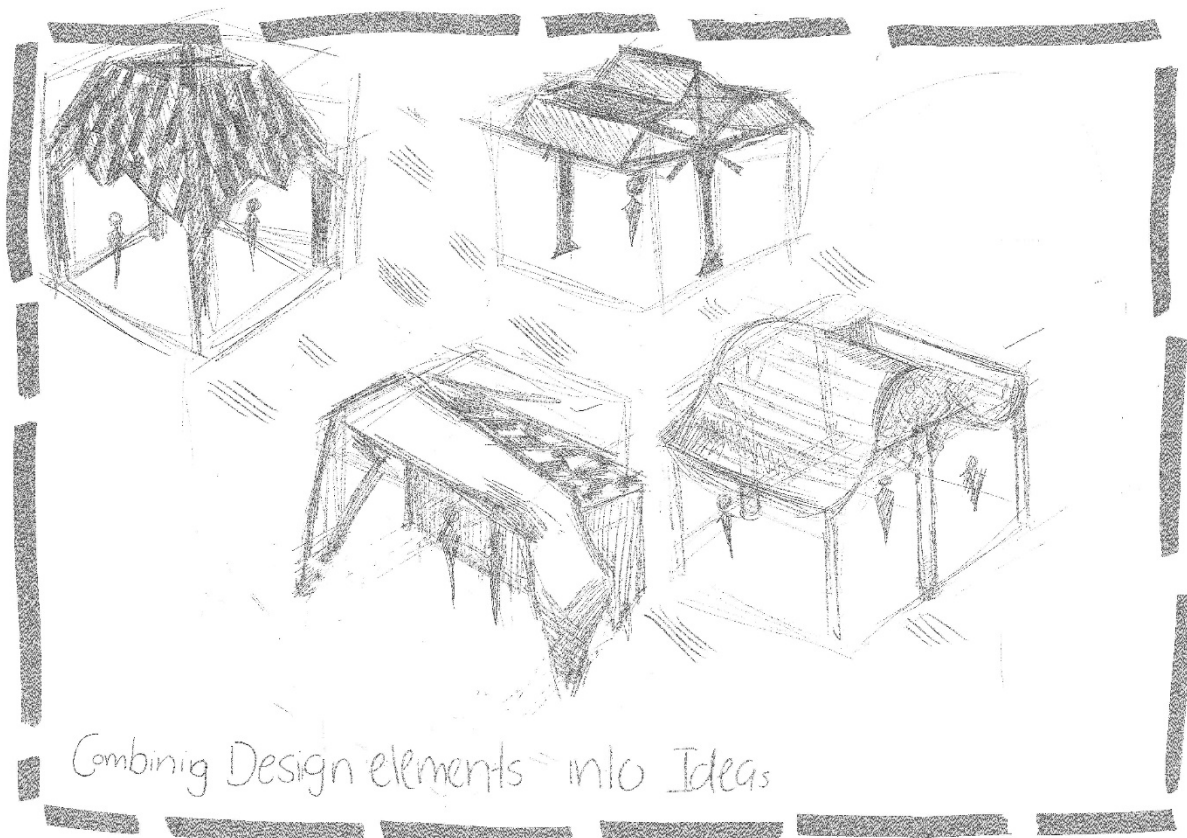
Dalton's designs are unique because of

What makes Daltons designs so unique ?

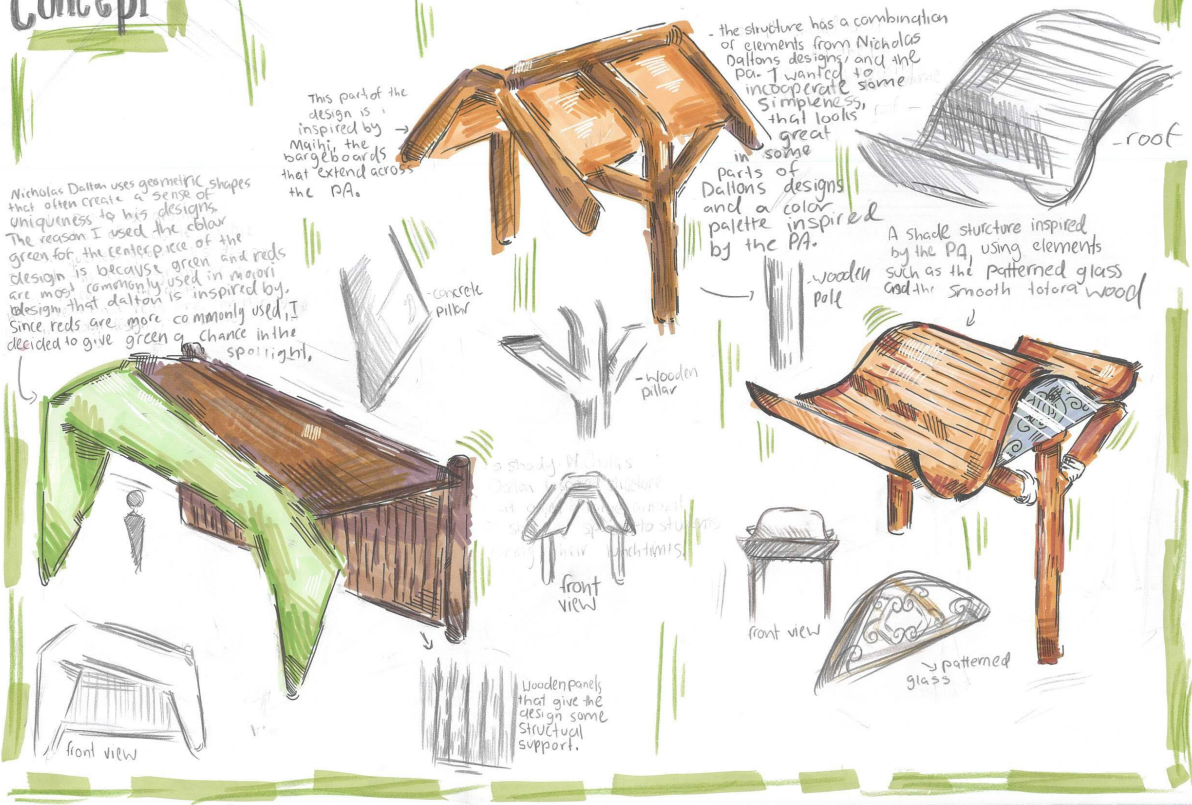
how he is able to incorporate his culture into his designs, in a way that makes them feel distinctively a part of New Zealand culture. You can tell from the colours he uses, most commonly using, reddish browns and black, splashed in with a pop of colour, most commonly red. He is able to give his designs a futuristic feeling with big glass windows, but also a natural feeling, with the common use of wood, and bits of rope that relate back to Maori heritage.

Source, <https://toa.net.nz/>

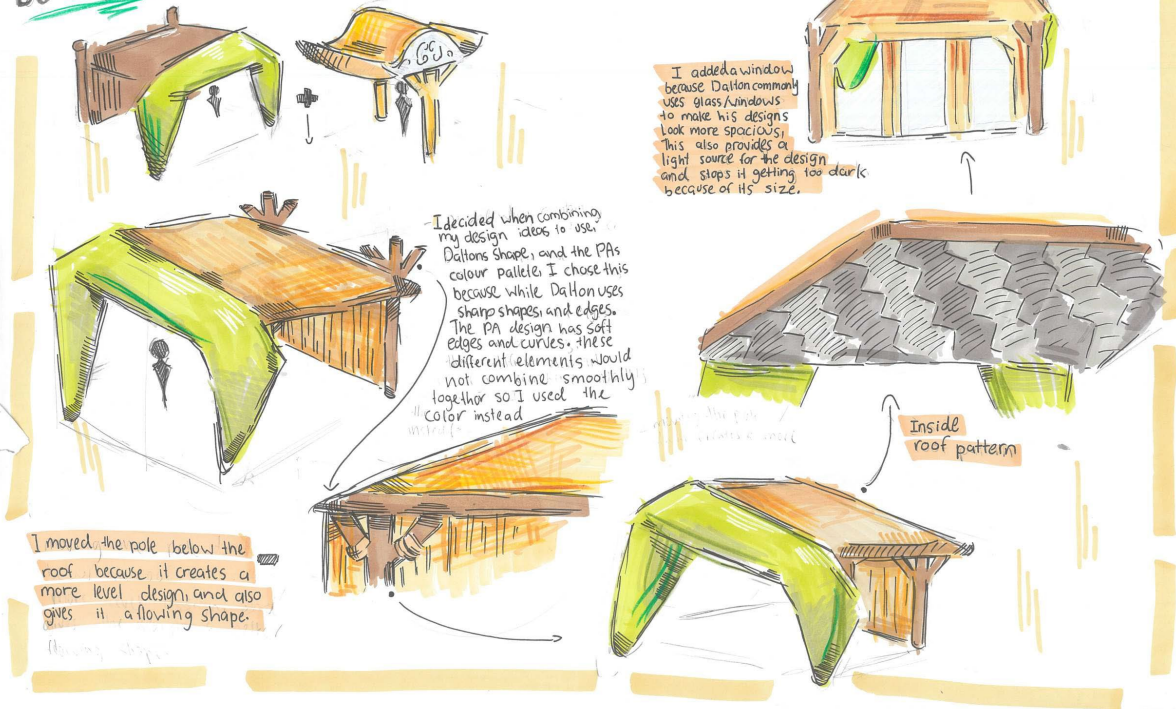




Concept



Aesthetic Development



Functional Development

