Exemplar for internal assessment resource Design and Visual Communication for Achievement Standard 91068



### Exemplar for Internal Achievement Standard Design and Visual Communication Level 1

This exemplar supports assessment against:

### Achievement Standard 91068

# Undertake development of design ideas through graphics practice

An annotated exemplar is an extract of student evidence, with a commentary, to explain key aspects of the standard. These will assist teachers to make assessment judgements at the grade boundaries.

New Zealand Qualification Authority To support internal assessment from 2014

	Grade Boundary: Low Excellence
1.	For Excellence, the student needs to undertake effective development of design ideas through graphics practice.
	This involves:
	<ul> <li>convincingly exploring and refining design ideas in a coherent and connected way that integrates design features</li> <li>making design judgments that are convincing and coherent in promoting ideas selected and decisions made.</li> </ul>
	The student has effectively developed their design ideas for furniture, as there is evidence of convincing exploration of shape and form with annotation based around comfort and style (1) (2) (3) (4). There is some convincing refinement of these ideas with the introduction of a canopy and illustrating structural detail (5) (6) (7) (8). This exploration and refinement is mostly coherent and the design judgements are connected, with good levels of freehand visual communication and annotation (6) (7) (8).
	To meet the requirements of Excellence more securely, there could be more evidence of convincing and coherent judgements. For example, the final presentation could show more depth of detail, so that the final judgements of appearance and function could be more robust.

The design will be made out of writker 20 and the supporting structure out 00 wonded porces of wood. The cushions will be mendle out of white aylon and he extra podded near the head rest to Bd into the create of the next. It will be quiet low to the ground so the feet will bed on the ground. The mologeny wood and dear white colours will harmonize micely byother to create a Fresh and sybbolicated appearance. I don't that the word Drue structure 3D will be able to support the weight comfortubly so it will need to be redesigned with more structural components or thister parts. I think the overall outline of the scatting is quite good and will provision the person nicely. Moube the negle of the legs will be slightly inconfortable because of the obvious peak and drop. Also, the disadrantage of this chair would be that the shape of the scoting might so that the comfort tastor the users above or below the everage height herause of the steep sloping This mark up allows me to see that MOCK-UP The ment it will be

ull the components are in proportion with each other and the gentle curves of the overall structure. I think this durian will be anite stable and sturdy. I like how the wohing have been slightly moved ded to provide a little extra comfort.



#### Low Excellence page 1

I want this chew to provide maximum without and be as user-friendly as possible. This design is very sophiscolad and pleasing to the eye; it fill in with the modern day style. The advantage of liting clean to the ground a thin hurdle and cased is needed to use it instead of howing to shark up on to chose schick are railed. I have reperated the eachiomena material who sections in 1 ANDR this will have interrove." the ergenomic fit and combet factor of the choir. Also,

I now added an extension to the top to provide shade. The station will lie made out of monidaed ploute which will be worked with a deep wolet colour. I want the padded withins to be a very light bege C

20

2



With this mack up. I can see that the shape of the choice will provide a great supporting hash for a confertable lownging rinker It will be intune to prostle with a must range of heights and builds. I can see that the publicus will sit on broker only under the person and nould to the position of the person. The back angle preater a gentle curve while the bot rest is alightly higher tor relatention

south this concept. I also uning to achieve working rather thom appearance. It will be more and of a day grean cannot since will wrectally wany of a apporting wooden environce. The design of quite her las = 1 haven on K with the fast that the polition will originit depending 3D in how the perior sits.

20

However. I do not use the fact that their are so many 10 mposents and the overall approvance loges quite complicated. 1 sidecian don't whe have there is a space

norman the material and the long - han zontal perce of supporting wood. I thank share is alet to improve on with this execution particularly with the looks and hughe comfort.

envide

MOCK-UP

Anducing this mode up this design will be quite unsoficiale that that when a promis due to the weight is put on, the unsupported central motorial will mare to a more the the Also, I now malos there is ertra unmanistry height and not enough room for the legs to rest in a amportable nave to be control of more constituting to the composit deperts that I want

30

mark we all can see that the angle of the

the the bour. Also, I share the shelter should

he extended out a lit more to enable it to

ascient with crute a confortable. support

provide bother and more electric shade.

by constructing this

20

convos

MUTERIAL

This idea is quite bulky and elembies a lounging solar for interior see. The sect goes below the arminest as shown in the 20 drawing and mortup it will be made out it taber and have many blee fibric covered warrants I don't use the overall with of this dasign because it locks as if outdoor & indoor aspects have been unnamed to societe a chair which I shink looks out of place. Havene eveloping the cutsile appearance. I think it where our comfortable and stuble. All's it will be oble to withstand alot of picture and he user friendly. It will be introducted and of timber states which will be manifold to consiste the events of the shelter. The structure beneath the busion cushion will be a big block of solid fimber that has been carried to enote the Dove curve. I we hav the even sub avent approache

components . but instead the wat is just lower to wrote the simples





3D

more - up , I can see that the dingle of the hacknest within create a comfortable support for the back, Also, I think the shelter should

be endended out a bit more to chable it to better and more effective shade.

By constructing this

\* Comment Even though I made the

the locks unattractive and does not thin with the sphistic ater style I am trying to achieve. I will either develope these anniett

armirests in this style in order to make it seem like they fit in after dawing this idea, I have devided

This idea is quite bulky and recembles a lounging sota to interior use. The seat goes below the arm rest as shown in the 30 drawing and mockap. It will be made out of timber and have many blue which I don't use the fubric covered overcall work of this design because it Looks as if outdoor \$ indoor aspects have been combined to create a chair which I thenk looks out of place. However, excluding the outside appearance. I think it will be and comportable and stable. Abr. it will be able to withstand abot and be user friendly. It of pressure will be instructed out of timber states which will be movided to write the curve of the shelter. The structure beneath the bottom cushion will be a big block of solid timber that has been curved to create the base curve.

I like how the armitests aren't separate

the seat is just lower to create the armests.

MOCK - UP

### continueD ... Material olivaduantages

provide

continued ... · Metal will rust, so it would Metal will rust, 50 Ct would have to be coated in a metal kinish or passe, coated. I will use the second option because it gives me the choice of any actour as well as covering it built a protective (cat, which is very convenient.
 It will be reacter than plastic. However, this could alle be considered as on advantage

because it will be more, stable and grounded in haish, windy heather.

Change 4: ARMRESTS want to add in some

armrests to reach the armrests to reach the maximum comfort level. Instead of the extended support columns joining to to seating base, I will curve them incords to create armrests which don't look out of place. Low Excellence page 2

6

starting design

20

3D

Change 2:

BASE

I want to develope the base of this design because it looks bulky !

unneccessary material.

and requires alot of

I don't think this design will provide also of shade, so i will extend the canopy out further. Because the position of the sun changes constantly, it would provide shade for only a certain period of time.

mile

Change 1: CANOPY

I have extended \$ which will make it Also, I have added Support columns which extends out from the canopy to connect to the seating base.

NDVANTAGES . It looks smarter · More durable

DISADVANTACES. steel sheets are more • steel sheets are more expensive then plashe. However, I am aiming this designer piece toward g different market with a higher price range & rodern dey style. They will get quadity for their money.

rangoy

.+

RBroce

steel sheets which hav been powder will a his coated a light silver - gray colour to will a give it a more sophisticated appearance. The cushions will remain a white/light beige colour to compriment the sinucture.

Instead of this design being constructed out of moused pastic as originally planned, it will be made out of moused

## CONTINUED

#### Change 6: BRACE

I will have to add support structures what the canopy to ensure that it will be strong and stable, since the extended support column have been removed in the process of developing the amrests.

Exploded drawings of canopy & brace: Purpose - To show how

different components fit together.

The ongulating braces on both sides of the provide support Eksupport brace Lushions

EXPLODED \$ CROSS

SECTIONAL VIEW

Here is another view

of the same joint, this

time, a cross-sectional exploded arowing as

seen from above

This is a cross-sectional side wew of the langry which demonstrates how the triangular base will be attached by a pair of barrel ruds for both ends of the brace. The construction will be held together by a mortise and tenon joint.

Barrel nuits

\* A barriel nut is a sleeved nut which is inserted through the chiefs of the mortie and the black of the tenon to lock them together.

Space to allow canopy barrel to be screwed on brace \$ ← mat B<sup>-nut</sup> 1 barrel hole ter nut space for brace, to fit in

armirests or remove then welded to the I seating base.

Change S: ARMRESTS My previous attempt at adding armests resulted in the design

unness resurced in the design looking unappealing and out of place This tinle instead of extending the support columns of the canopy, I will have a flat steel piece which is connected to the sealing base upturned in order to make the armnests.

(Inspired by design () from revearch)

abhogether

	Grade Boundary: High Merit
2.	For Merit, the student needs to undertake informed development of design ideas through graphics practice.
	This involves:
	<ul> <li>purposefully exploring and refining design ideas, in relation to decisions and considerations that are meaningful to the design context</li> <li>making design judgements where ideas and decisions are informed by design principles and the brief context.</li> </ul>
	The student has shown informed development of their design ideas for furniture, with some purposeful exploration of shape and form (1) (2) (3) and refinement of possible assembly solutions and alterations. (4) (5) (6) (7) (8) (9). Most of the design considerations and judgements are either meaningful to the context or informed by design principles.
	To meet the requirements of Excellence, there would need to be evidence of effective development. For example, the student could show selection of ideas and design judgements that are more convincing and coherent such as more convincing ergonomic shape and more robust assembly detail.





It is a Outdoor Chair, made out of proving wicker. The chair has a recliener which can objust up to three levels. The chair will be really comfy and durable since the cushions will have a carvas cover to prevent the cushions will have a carias cover to prevent rain downage. This chair should last a very long time with a stable base. The chair is used for outdoon comfort, because of its ergonomic fit. The chair can support any body weight since it has thick less and parts. I don't like this concept because is very heavy to carry it around. I don't perfer the traditional style and is very hard to make.

I like this chair because is modern and creative. It's made out of Kwila It's very comfy too, since it has the ergonomic fit. It will be very stable since of the flat base. It will last very long and can block bad weathers, like rain and show using the board on top.



This outdoor chair is designed to be more modern and simple compare to concept one, is made out of good quality light colour Wood. It has the organom. It which is very comfy to sit on it. It will last very long since it has thick body and stable legs.

By using the joining method, it will make the chair stionger and more stable. The dies must be strong to support the heights of the pieces, there for , the diles should be an que ofrong and thick, with with PVA GLIE The diles should [ PVA Glue in the holes where diles are, so that is more stable and won't break easy.

Holes NINCE

be 6 - 8 cm long so that they fit

perfectly into

the diles are h in should be wound 3-4 cm

deep.



	Grade Boundary: Low Merit
3.	For Merit, the student needs to undertake informed development of design ideas through graphics practice.
	This involves:
	<ul> <li>purposefully exploring and refining design ideas, in relation to decisions and considerations that are meaningful to the design context</li> <li>making design judgements where ideas and decisions are informed by design principles and the brief context.</li> </ul>
	The student has shown informed development with the use of mock-ups to explore pivoting and joining possibilities and visual communication skills which, purposefully explore their ideas for furniture design (1) (2) (3) (4) (5) (6) (7) (8). There is some refinement to the adjustability and refinement of some of the structural components (9) (10). The design judgements mostly incorporate design principles, some in a broad sense.
	To meet the requirements of Merit more securely, there would need to be further evidence of the informed development of their ideas. For example, the student could strengthen the refinement of ideas to enable final design judgements about appearance and function to be made.





	Grade Boundary: High Achieved
4.	For Achieved, the student needs to undertake development of design ideas through graphics practice.
	This involves:
	<ul> <li>exploring design ideas by considering possible alternatives</li> <li>refining design ideas by considering design details</li> <li>making design judgements that consider qualities of design ideas, in terms of the principles of aesthetics and function, in response to a brief</li> <li>visually communicating the details of design ideas in response to the design brief.</li> </ul>
	The student has developed product design ideas for a bottle, with exploration of alternative design ideas mainly based on shape, form and colour (1) (2) (3) (4). The details of their design are considered using visual communication, including mock-ups and models of an interlocking shape, to refine their design ideas (5) (6).
	To meet the requirements of Merit, there would need to be evidence of informed development of ideas. For example, the student could introduce further principles of design in their design judgements.



I like the design of this bottle but it might be too big to carry around. It is more like an ornament. 80





I like the look of this bottle because it has an art deco look





I like the look and design of this bottle I like how it has different angles of glass set on the surface. The lid is too big

0

R





I like the way this fits together and the key rings make it useful and more secure for carrying around



## concepts

perfuum bottle.

I like this design. It has powerful colour and shape.I don't think it would make a suitable

This is a simple shape but the balance does not look ok.

I like the different shapes in this design. It makes it interesting to look at.

> I am exploring the way the two bottles link together.

> > Δ

2

I like the twisted shape to this bottle but it looks like and existing bottle.

High Achieved page 1







I drew my design in oblique as it shows the volume the bottle has and its curves. I chose to render my design in coloured pencils as ir would show the material I would use to create my bottle. My final design would appeal to the target market.

5

High Achieved page 2







	Grade Boundary: Low Achieved
5.	For Achieved, the student needs to undertake development of design ideas through graphics practice.
	This involves:
	<ul> <li>exploring design ideas by considering possible alternatives</li> <li>refining design ideas by considering design details</li> <li>making design judgements that consider qualities of design ideas, in terms of the principles of aesthetics and function, in response to a brief</li> <li>visually communicating the details of design ideas in response to the design brief.</li> </ul>
	The student has developed and explored shape and form (1) (2), with some refinement, product design ideas for packaging to contain a bottle (3) (4) (5).
	To meet the requirements of Achieved more securely, the student would need to show more depth in the development of their ideas. For example, the student could further refine details such as construction and joining methods.



Student 5 page 2: Low Achieved





5

	Grade Boundary: High Not Achieved
6.	For Achieved, the student needs to undertake development of design ideas through graphics practice.
	This involves:
	<ul> <li>exploring design ideas by considering possible alternatives</li> <li>refining design ideas by considering design details</li> <li>making design judgements that consider qualities of design ideas, in terms of the principles of aesthetics and function, in response to a brief</li> <li>visually communicating the details of design ideas in response to the design brief.</li> </ul>
	The student has developed ideas with exploration of the shape and form of furniture (1) (2). There is some refinement of ideas beginning to show, through the use of a mock-up and ergonome (3) (4).
	To meet the requirements of Achieved, the student would need to show further development of ideas. For example; the student could consider further alternatives as possibilities and further refine detail such as construction detail, working drawings and/or rendered drawings.

Initial 1. I tried to draw a modern Ideas deck chair but I found this was very hard to draw and I couldn't get down on paper what I was thinking. Lox But & still like hair What the outer is but it is not what I 1 nos loolering lor. This chair I the because I think that I would be a really good strish and dworble and Strish and double outdor chair. I think this their would be real while because I has a that before would of Mis chur would also be very comblesse becase the curves good with be bounded Development hair ex ohe I have decided to curve he sides and make it combin and 2 4 SOI have coved the feas and Amalle it hole a bit more shittin. High Not Achieved page 1

ockup. In this makup I obcound, and changed a couple of hings. One of those things is I discoured how hard it would be to providice und make. This was hard because nost of the choor is sort of a box ather and this was very ford to prate put The next thing I discoved was what the legs I would put on them ad the was one of The chopes I and M ony machup. Install of having short and shuby 1 kgs I changed it to a have hopsile ı 3 L 150 25000 750mm 250mm 4 200mm 750 mm

In my exponence I found that the 1:10xm/e moun find my chair well and If showed we had not chair is also a 1:10 scale bacase the main hit perfectly.

High Not Achieved page 2