

YOUNG
DESIGNER



Client Profile



Name: Bridie Thompson

Age: 14

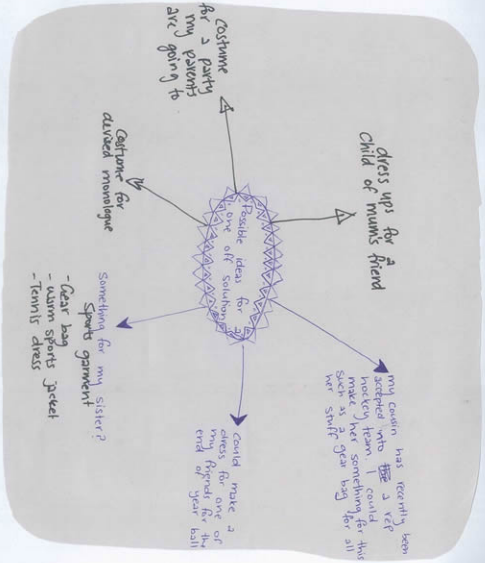
Preferences: Colours- strong bold colours, not yellow, not dark navy blue or black, not white,
 Fabrics- doesn't mind
 Period of fashion- 80s
 Silhouette- fitted at top, fuller at bottom
 Style- Classic but pretty tennis dresses, wouldn't mind trims, not too simple but not too intricate.

Plays tennis on Sunday mornings during the summer terms and a lot during the week throughout summer. She would like a dress to play in so she has another tennis outfit not just shorts and a t-shirt. She would wear it at least once a week but could end up wearing it up to 4 times.

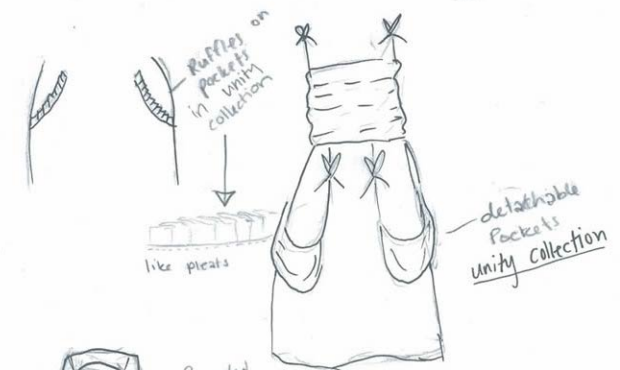
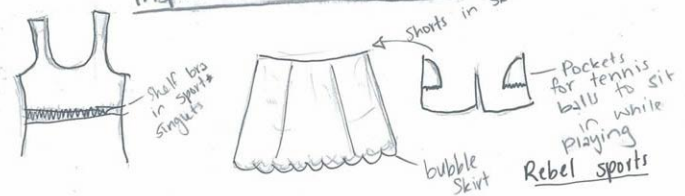
would prefer t-shirt sleeves but wouldn't mind straps
 pockets
 Just above knee
 not dark colours



This is what she wears now, these shorts and one of her every day t-shirts.



Inspiration from shops in town:



nike shop



Karen Walker



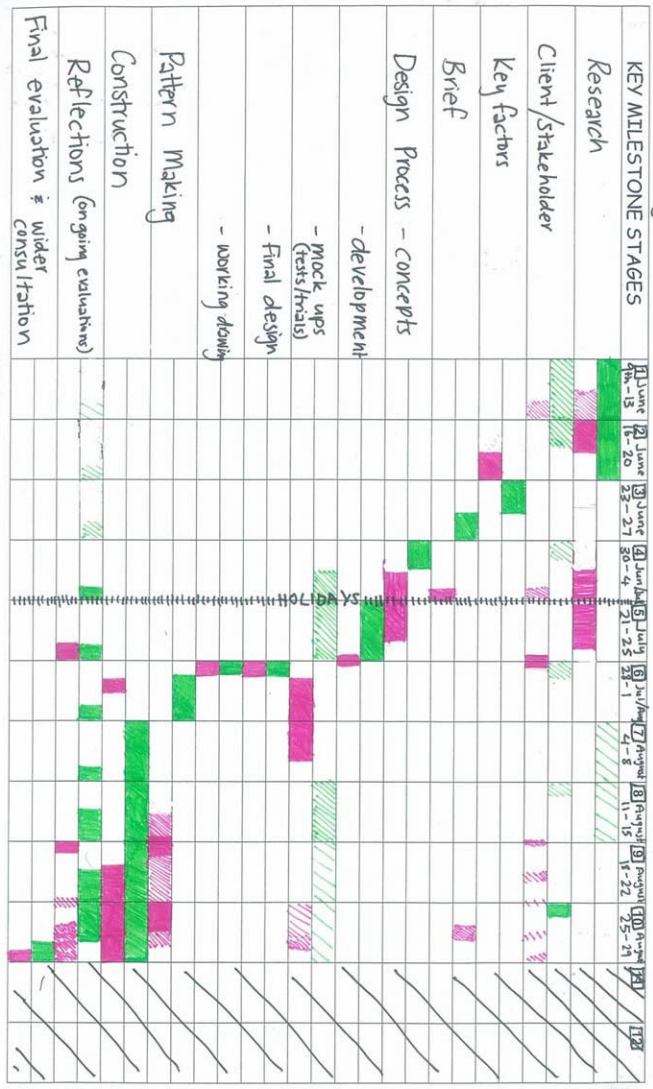
bows on lots of things in Karen walker

- Shops I went to
- Karen Walker
 - Kate Sylvester
 - Nike
 - Rebel sports
 - unity collection
 - Area 51
 - Artikal
 - Ricochet
 - Ruby

BURDASTYLE.COM

PROJECT TITLE Young Designer

KEY MILESTONE STAGES



KEY: ESTIMATED TIME TO COMPLETE STAGE:



ACTUAL TIME TAKEN TO COMPLETE STAGE:



Draft Brief

Outline

My Sister Bridie plays a lot of tennis during the summer, playing casually during the holidays and week nights and playing for her interclub team on Sunday mornings during the term time. She normally wears a cotton t-shirt and shorts when she plays. I have the opportunity to make a tennis dress outfit for her which is a little more casual than t-shirt and shorts.

Specifications

Tennis dress- light fabric, breathable, needs to be able to move with player. Client has okayed all fabrics (none she specifically doesn't want)

- Would prefer t-shirt like sleeves but wouldn't mind straps

- Just above knee
- Not dark colours (attracts sunlight) strong bold colours
- inspired by Furbal theme - pockets - personalised -

Constraints

- needs to be made by week 6 term 3
- must incorporate skills and knowledge I explored in our first project
- need to use
- Budget \$50



Fit current fashion + tennis fashion trends - fitted @ top fuller @ skirt

Key Factors

1. Fitness for Purpose

The purpose of my solution is for the garment to be worn while playing tennis. It needs to fit this purpose well by using the right fabrics, shapes etc. For example it can't be made out of something impractical like heavy fabrics or stiff fabrics because then it will affect the way the person can move. It would also affect the player's stamina because they could get too hot too quickly and it could make the player sweat too much. These things need to be on my mind as I design and make this garment so it will fit the purpose. My research will be able to help me use the right sort of fabrics and shapes that will fit this purpose.

I think this is the most important factor because this is the whole point of the project. If it doesn't fit the purpose of being a lightweight, breathable tennis dress that doesn't restrict movement, then I won't be able to give it to my client because it won't fit her needs and won't be what she has asked for.

Fitness of purpose relates to materials because the fabric and materials I use will need to work with the purpose of a tennis dress not against it by being breathable, lightweight and able to move with the wearer. It relates to ergonomics for the same reason. It relates to the aesthetics as well because as I am making a sports dress it will need to look like that rather than looking like a ball gown.

2. Time

Time relates to my issue because I need to be able to make the solution by the deadline (week 6 term 3) and there are no opportunities for extensions. This could affect my possible solution because I will need to make the design manageable to make by not including too many intricate time consuming techniques that would affect when I could finish it by.

I can't bite off more than I can chew. There are no extension opportunities so for me to pass it needs to be handed in on time. This means I need to keep this on my mind the whole time so I can finish tasks on time and don't bite off more than I can chew so I can hand in a quality solution on time.

Time relates to materials and aesthetics because the materials I use for this need to be quite easy to use so I don't waste too much time trying to work with them. This could also affect the aesthetics of the finished solution because the amount of time I have to complete my solution may limit the amount of techniques I will be able to use to change the look of it.

3. Ergonomics

Sports garment- needs to be suitable for sports. The garment will need to be able to move with the wearer, it can't restrict any movement because then it will start to affect the way the person plays rather than help it. The fabric will need to be light and breathable so the person doesn't get too hot or use energy carrying around extra weight of heavy fabrics. It will need to be well fitting so any tightness or looseness doesn't affect the player.

Ergonomics is very important for my solution because that is what sportswear is all about, creating garments that will move with the person playing sport to aid their playing. It is very important that it is able to move with the body, breath and not distract the player (e.g. by being too loose/light/heavy) otherwise it stops being fit for the purpose because it would start to affect the wearer's playing ability.

Ergonomics relates to fitness of purpose like it says in the fitness of purpose section, it relates to materials because the materials I use need to be right for the ergonomics, being able to move with the player etc but it also relates to two key factors I haven't talked about, hygiene & health and shape & size. Hygiene and health means that the garment needs to not restrict movement too much because it could cause injuries also try to make the garment breathable so the wearer doesn't sweat too much. Shape & size means it needs to fit well so it doesn't affect player also things like the skirt need to be the right shape so the player can move easily in it if they are running, lunging and so jumping around in it.

Sunburn sleeves NZ high UV index taken into consideration Washability



Use of bows - look classy but don't get in the way of the players
Dresses fuller in the skirt to allow movement



Roger Federer has personalised tennis shoes with his initials embroidered. I think this is really classy and would like to use it



Beating round neckline - wouldn't get in the way of her playing but looks elegant



Sleeves rather than straps which a lot of tennis dresses used. These dresses use sleeves but not in a shirt-like way which I like. More casual looking but still nice. Protects shoulder Promiss



Bubble dress skirt
Another way to do skirts that looks nice and more interesting than a plain straight skirt also would allow a bit more movement because the whole circumference is wider



Round arm hole has been strengthened

- 1) The cross over straps would help movement of arms and shoulders because not restricting them in any way
- 2) Higher neckline maybe more comfortable for this person. Doesn't restrict arms with straps
- 3) Reinforced round neckline. Gap in middle so skin can breath. Very drapery fabric in skirt so doesn't restrict any leg movement
- 4) Pleated skirt to allow full movement
- 5) Well fitting so wouldn't be distracting
- 6) Illusion of another top underneath and a band of colour to make the dress look more interesting (rather than just plain) but doesn't effect player's ability at all. (Two top look done by sewing a small piece of fabric under top)
- 7) Bands around necklines and armholes to make more comfortable (doesn't cut into skin)
- 8) Same as 5 but can see more of skirt. This frilly band sewn around hem to make look more like two skirts. Full enough that this doesn't effect movement.
- 9) Very thin racer back to allow lots of movement through shoulders and arms (however very thin shoe-string straps could dig in to shoulders)
- 10) Interesting straps. Mainly design feature but would allow lots of movement through arms
- 11) Pink band design feature which wouldn't effect player



- 15) Very full skirt to allow lots of movement in legs also can just see the shorts underneath which are so they player feels comfortable if skirt flies up (something underneath not just underwear). Also somewhere to hold balls - will have ball pockets on side of shorts.
- 14) Pleats to aid movement (in skirt) collar could get in the way however although it's not too long.
- 13) This is my favourite dress. It is a very simple dress with a racer back, fitted at top and fuller at bottom which all fit purpose for tennis dress but the design features - the gathered neckline centre, the two colours the band round the middle, the print on the side and the clean cut all make it look very elegant and classy. Cool vents with worn at waist to fresh feel (nicely thin next to skin).
- 16) This doesn't look like it fits her very well round the bust, the neckline comes down too low and the straps look like they'd dig in to her shoulders but the gathered band at the bottom allows more movement through legs.
- 18) This design looks very comfortable especially with the soft looking neckline and the fuller skirt.
- 17) The fuller skirt would work well with the player but the back looks like it could restrict shoulder movement slightly.
- 20) The top she is wearing would be more used for cooler temperatures and warm ups. This game was in the evening so would be a lot cooler than during the day.
- 22) This racer back would allow lots of movement but the straps on extra straps would take off pressure on the neck so they wouldn't dig in.

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↳ same dress but in two different colors to glam up the dress without being annoying



applied Princess a way to glam up the dress without getting in the way of her playing.



This shows how the skirt moves so it doesn't restrict movement. Also the shorts underneath.



Bring feminine flair to every match in the Nike Doubles Women's Tennis Dress featuring princess seaming, a ruffled lower hem and a built-in bra for support and comfort.



The Nike Sleeveless Women's Tennis Top pairs a stylish pin-tucked tuxedo bib at center front with Nike's innovative performance features for a winning combination.

Nike Dri-FIT fabric to wick sweat away and help keep you dry and comfortable

Front tuxedo bib detailing in double layer jersey topped with three crafted buttons with gold eyelets

Deep open neckline with No-Sew technology to reduce chaffing

Modified racer back for better range of motion

Laser-cut perforations on the back for zoned cooling where you need it most

Fabric: Dri-FIT UV protective 84% polyester/16% spandex plain jersey



You'll look simply smashing set after set in the Serena Court Women's Tennis Tank Top by Nike, featuring Dri-FIT fabric to help keep sweat at bay.

Nike Dri-FIT fabric to wick sweat away and help keep you dry and comfortable

Built-in bra

Scoop neck for a flattering look

Fabric: Front panel/upper and lower back panel/ side panel/ shoulder panel: Dri-FIT 92% polyester/8%spandex. Center inset/center back inset: 81% nylon/10% spandex. Side panel lining: 100% polyester warp knit mesh. Center front bra/center back bra: 81% nylon/19% spandex. Bra cups: Dri-FIT 92% plain jersey polyester/8% spandex.

Keep your cool on the court in the Serena Women's Tennis Skirt with sweat-wicking Dri-FIT fabric and four-way stretch to keep you dry and comfortable from first serve to match point.

Nike Dri-FIT fabric to wick away sweat and help keep you dry and comfortable

Pleats at center-front and center-back - Would aid movement

Internal shorts and two ball pockets

Nike tennis court logo at front left waistband

Fabric: Body: Dri-FIT 86% polyester/14% spandex. Shorts and ball pockets: Dri-FIT circular knit jersey 92% polyester/8% spandex.

Dri-FIT

This high-performance microfiber polyester fabric actually pulls sweat away from the body and transports it to the fabric surface - where it evaporates and leaves the skin cool and dry. It's all you need for hot days, and a critical base layer for cold days. Stay dry. Stay comfortable. No matter what.

Dri-FIT UV
This high-performance microfiber polyester fabric will keep your game sharp in any climate. Works to pull moisture away from your skin and toward the fabric surface, where it evaporates, leaving you cool and comfortable. Unique fabric construction works double duty by also providing minimum UPF 30 Ultraviolet protection so you can focus on your sport, not your sun care.

would be a good fabric to use however it would be highly unaccessible



meets brief:

- bold colours
- above knee
- includes pockets
- fit for tennis dress



- meets brief:
- inspired by f/initial theme
 - includes pockets
 - uses t-shirt sleeves
 - just above knee
 - fit for tennis dress
 - uses techniques I explored last project
 - + screen printing
 - + machine embroidery
 - pleats

Pocket detail like I saw in Unity collection

f/initial screen printed

Initials machine embroidered

ruffles on hem like I saw in Karen Walker

Just above knee as specified in brief

Pockets need to be large to fit tennis balls



Pleats - possible technique to use for round hem, pockets and/or sleeves



Client Feedback

- likes the cut/shape - how it's fitted
- likes the print
- maybe try plain sleeves because wouldn't like them to be too puffy
- likes ruffle/pleats on bottom but maybe not on pockets if sticks out too much

150cm - 160cm

\$17.95

comes in a range of colours



Yellow sequins or sequin-like print to colour represent the chest on the birds

If used sequins in a place where it wouldn't affect the play, the very much



blue like the bird is in picture

initials machine embroidered



Fabric pieces sewn on to skirt to look like the tail feathers so gives the effect that the skirt is made up of floating pieces but it's not actually so it's easy to play in



Meets brief:

- all inspired by forest theme
- includes pockets
- bold colours
- just above knee
- has 4 shirt sleeves

all print but likes how ple so couldn't see where it and sequins is prefer sequin print than actual sequins has self in it change skirt to make easier to

P. Forest
D. Veeh
North Island fantail
Department of Conservation office.
For more information on fantails, please visit your local

Conservation has more information on plantings that will attract various native birds to your garden. If your garden their home, plant a variety of native plants that will encourage small insects. The Department of Conservation encourages piwakawaka to make

in disturbed and destroyed habitats. Change, because certain insect populations increase insects also makes the fantail resilient to environmental back quickly after a decline. Its broad diet of small likely to escape predation and populations can bounce

to produce lots of young. Some chicks are therefore success compared to other native birds in their ability and grow up. However, the secret to fantails' relative eggs and chicks fantails produce, only a few survive to fantails as they are to other native birds. Of all the

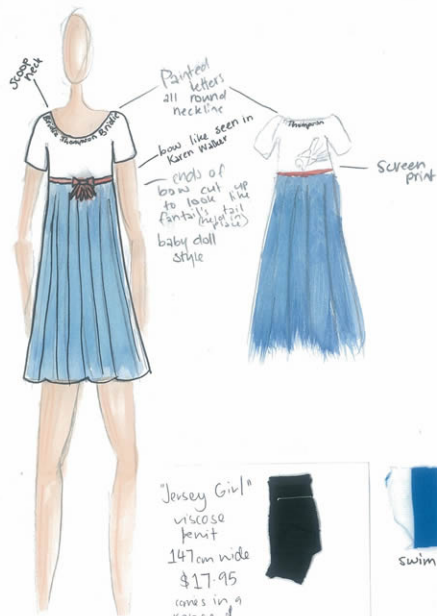
Cats, stoats and myxas are as great an enemy fantails face as birds. Fantails frequently follow feeding silvereyes, whimbrels, parakeets and saddlebacks, as well as people.

The fantail follows another bird or animal to capture insects disturbed by their movements. Fantails

July 21st Reflection

So far I have done the beginnings of my project. I have done some research of tennis dresses - getting pictures from the internet, looking at the different shapes and features of each one and also looking at tennis shirts and skirts (I couldn't find any dresses) in shops. I also researched some clothes in stores around Wellington looking for inspiration. My chosen client is my sister who needs a tennis dress. I started doing some designing starting a concept but then I had to stop because I was finding it far too hard to design without a theme. To drive where my concepts were going. Over the holidays I brainstormed a lot of ideas for this including Paris, Hollywood, NZ, Wellington music, 1960s fashion, 1980s fashion, ANZAC, Tuis, fantails, Southcoast. The main thing I had to think about when coming up with a theme was would I be able to do a print that related to it because I would quite like to do a screen print screen as I didn't do one last project. It's a technique I would like to explore (photographic). I decided to use a fantail to inspire my designs because fantails

are a type of bird my sister likes, they dart around quickly and cheekily like a tennis player and they are common around wellington (native to NZ) which relates to my client who is from wellington and plays tennis in wellington. This helped my design process a lot.



Client Feedback:

- likes cut/shape
- likes bow

meets brief:

- Just above knee
- bold colours
- inspired by pantail theme with the bow ends and screenprint
- fits with current fashion trends - especially bows



Straps ~~cut~~ cut in
+ then Pleated
together



ends tied
together then
sewn down
with ends of
the strips of
fabric to form
out like a
fan tail

- Pleated skirt
like used on many
tennis dresses

- tie dyed
fabric. Grey
like the
colour of
some fantas

Meets brief by:

- Just above knee
- fits tennis dress purpose except maybe the knot on the back
- inspired by fantas - colour
- includes techniques: knot end like tail + Pleating + Plying + dyeing
- includes pockets

"Sport X"

150cm wide
Polyester +
Cotton
\$12



comes in a
range of
blues, Reds
greens



T-shirt-like
neckline
comfortable
to wear

inhab on shoulder

fanlike (raise print
padding
backing)

screen printed
on separate
fabric than

applied on
details done over
Print with
machine embroidery

same
fabric
different
colours

attached
by
dorms

detachable
pockets

same basic print
repeated without
detail added

bubble
skirt
like used on
some tennis
dresses worn
by pros

Meets brief:

- inspired by fanlike
- has pockets
- bold colours
- fit for tennis dress



bow like Walker's clothes and some tennis outfit!

Plain sleeves

Plain pockets

screenprint basic outline with machine embroidered details

branch hand painted w/ leaves



initials embroidered over basic outline print (no detail added)



Black
Pink
Coral
Mustard



hand painted to look like feather leaves
Print moved and made bigger



Plain edge so easy to play in

Stake holder notes for concepts

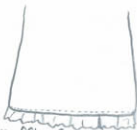
- liked the first and second ones best, didn't mind which one I developed
- could see herself in the second one a bit more
- understands that 1st one more appropriate for tennis dress.

I chose to develop the 1st one because it would be much easier to make. If I had chosen the 2nd one it would have needed to be developed a lot to make it more appropriate to be a tennis dress. This might have changed it a lot so that it worked better for tennis playing and I couldn't be sure if my client would like it as much after it changed. The 1st design can be developed but stay the same more or less so I could be sure she would be happy with it and would still like it.

Hem development



Straight plain hem
- easy but not very interesting. Is what lots of tennis dresses are like.



ruffle (gathered)
- gives effect of feathers
- easier to do than separate feathers
- is a technique used in lots of designers outfits at the moment



Separate feathers



ribbon or long strip of fabric in shape of feathers would be hard to play in

Embroidered initials
development

Edwardian Script 11

BT 72 pt.

BT 90 pt.

BT 100 pt.

BT 150pt.

This font is the most elegant looking font
both my client and myself like this
one the best.

Possible placement of initials



BT

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BT

Sleeve developments

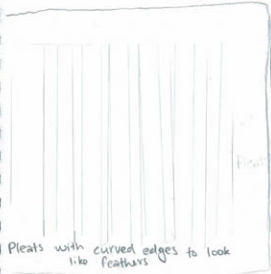


Feather shaped pieces sewn together

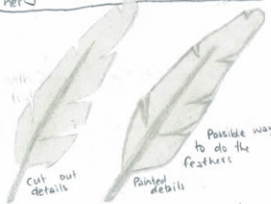


different shapes that the feather pieces could be to make more realistic looking also with a line of top stitching down the centre or side to look like the centre piece of the feather or same idea but with hand painting

Could use a normal sleeve and then sew feather pieces onto sleeve so they don't flap around and annoy her



Pleats with curved edges to look like feathers



bigger pieces sewn together like top idea



cut bottom of normal sleeve then hand paint on rest of feather shapes

Colour developments



Green

light blue
(probably more sky
blue than this)

beige/cream
(less pinky than
this)

I just played
be. Some relate
look good. My

around
to the theme but others are
Client likes these types of
the dress could
just what would
so they all fit
in some way



Brown



Grey marl
(a bit more grey
than this)

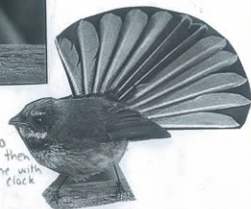
These two relate to the fantail because these are the colours of the fantail and of nature too.

Screenprint development



I like this design because of its simplicity. I want to use a similar image without copying this one.

My client likes the first picture because it's such bold colour with black image so it stands out well. She also likes the birds shape in the same picture especially the tail and how it's completely fanned out.



To make my screenprint design I merged these two photos together using the body of the second photo with the tail of the 1st photo. I then went over my new picture outline with sharpie to get a picture like the clock partail in the photo above.



This is the outline I got from tracing over the picture you can turn it over to see.



Here I played with colouring in parts of the bird to make it more realistic looking. This is the bird I am going to use.

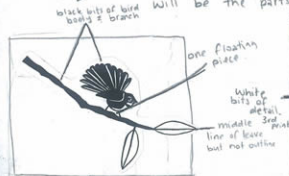


Here I just experimented with what it would look like just as a silhouette. I prefer it with some detail on it.

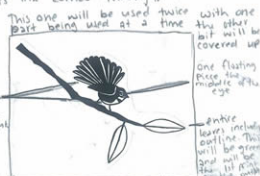
This is the branch in the bird will be sitting on. I just added rough branches and real branches and sticks. The bird will look like my sketches to.



I will use two screens to do this print. One for the black bits and one for the white and green bits. I will cut out the labelled parts on each diagram this will be the parts the ink comes through.



Black base (2nd print)



White outlines & green leaves

Pocket development



Ruffles/pleats on pocket edge keeping consistent with theme matching sleeves and hem.



Rounded plain pocket edge more to shape of the ball and shape of body, easier to get hand into.



Plain straight pocket edge easier to use - nothing to get in the way and annoy player.

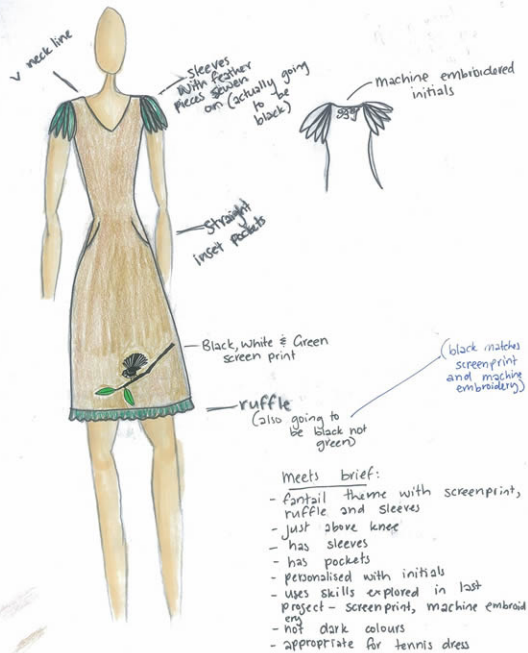


This is about the actual size of a tennis ball so the pockets will need to fit this in (plus the same all round since it's a sphere) Plus room for her hand.

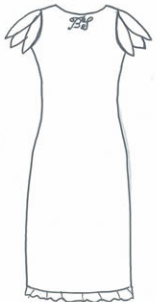
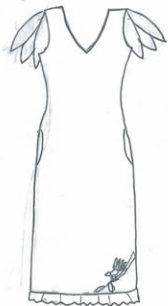
Client Feedback:

- Rounded good for getting balls in
- Straight better for keeping balls in
- like look of straight one better because of the way it would sit on the dress
- Pleats would make it look more interesting as long as it wouldn't look too much at the dress

Final Design



Working Drawing



Fabric I will use:



Cotton Lycra
Fabric Warehouse
\$12/m
2 m
for body, Pockets
and under sleeve



cotton lycra
found at home
for feathers on sleeves
and ruffles found
hem

Refined Brief

Outline- My sister Bridie plays a lot of tennis during the summer, playing casually many days a week during the holidays and during the term time ^{casually} a week nights and playing for her interclub team on Sunday mornings. She normally wears one of her everyday t-shirts and a pair of sports shorts. I have the opportunity to make her a tennis garment which is a little less casual than t-shirts and shorts. It also means she doesn't need to wear the t-shirts she wears to school ~~and~~ and on the weekend.

Specifications

Because it's a tennis garment it needs to be made from a light, breathable fabric that can move with the player so that she isn't going to get too hot or have any restrictions on her movement. It also needs to be machine washable because it will at some times be worn at least once a week. For Aesthetics she would like it to come just above the knee, have sleeves and not be dark colours. If it comes just above the knees she won't feel self conscious that it's too short and it won't be too long that it distracts her. The skirt also needs to be wider ~~enough~~ at the bottom so it won't restrict movement. However she would like it to be more fitted at the top because she prefers the look of fitted tops and she feels more comfortable when they fit her well. It would get distracting for her if it was too baggy. Having sleeves would mean that her shoulders will be protected from the sun and if it isn't a dark colour then it won't attract heat and sunlight so she won't get too hot. However if it gets a bit colder the sleeves and a bit of length in the ~~skirt~~ bottom would mean she wouldn't get too cold either. If it is a bit fitted it won't fly up or flap around too much in the Wellington wind. It should include pockets somehow so that she can have more than one ball with her at a time, but not have to hold them or put them on the ground close to her and risk standing on them. She is ok for me to use any type of fabric (doesn't have any fabric allergies or dislike the feel of any).

Constraints

- needs to be made by week 6 term 3
- must include skills and knowledge I explored in our first project
- Budget \$50
- Needs to fit her measurements Bust: 76cm, Waist: 6cm, Hips: 90cm
- Needs to fit the purpose of a tennis dress (can't be too long - mid calf length etc.)

Desired attributes

- To be an original design
- To be inspired by the fantail
- To fit current and future trends in both tennis wear and every day fashion
- To include pockets that will fit tennis balls
- Be able to be pulled on and off so zips and buttons aren't necessary so they don't irritate her.



I did this sample to make sure that my print would actually work and also to see if the colours I have chosen for it work. I'm really pleased with how it looks. The branch over the leaf is faded a bit so I need to pull hard on it the whole way down next time. I used normal ink for the black and green but I used opaque ink for the white so that it would stand out and be able to be seen on top of the black. I don't like the little mouth, but because it doesn't look realistic and doesn't fit in with the rest of the print. I will cover it up next time I print it.

Screen Print
Sample

Machine Embroidery Sample



BT

This is the sample I did on an ordinary machine by doing freehand machine embroidery. I printed out the letters in Edwardian script size 100pt and traced it onto the fabric with a pencil. I then went round it which took quite a while but it turned out looking pretty good.



BT

However this sample looks better. This was done on the Bernina machine which was linked up to a computer. This method will work much better for my solution because it takes a lot less time than freehand and it looks a lot more precise and professional. Ms Merrick put the design into the computer since I didn't know how to use the software.



BT BT
BT BT
BT BT
BT

These were done using the same machine as the previous one and are just samples of what a few more fonts would look like done in machine embroidery. I still like the one I'm using. I best for my solution because I feel it is more elegant looking than most of these.

This is a technique that I explored last project with a few samples but I wanted to further explore it and use it in this topic.

Equipment used: sewing machine, hoop, #9 foot, computer, Bernina machine

Reflection 17 August

Over the last 3 weeks I have got a lot of work done. I finished all my design work which included my developments. To begin with I was developing the whole dress changing lots at a time but then I realised it would be easier and more helpful to develop each individual aspect of the dress separately. This worked very well for me because I was able to refine those aspects which I liked rather than change them completely which would have happened if I kept going the way I was. During developments I came up with my screenprint. After finishing my design work I cut out my print, photocopying it onto the DHT sheet. I then did a sample of the print which turned out really well. A problem for later with the print is that it took a very long time to do because I need to do three screens. This means I will need to go quickly and focussed when I put the screens together and do the print, maybe using a lunchtime to do it in. I may also have to do a sample on my actual fabric to make sure it works because it's stretchier than the Calico I used for my sample and a slightly different colour. I'll need to do this in my own time too I think so I don't waste any class time with it. I bought my fabric as well. I bought 2m of a beige cotton lycra from the fabric warehouse. This is for the main body, under ~~sleeves~~ and pockets. It cost \$12/m. I found some black cotton lycra at home for the ruffle on the hem and the sleeve feathers. I chose black for a couple of reasons, it goes well with the beige, it matches the main colour of the screenprint and machine embroidery, my client preferred the sleeves to be black and it ~~took~~ relates to the fantail more than blue or green would. I haven't had to buy a pattern, I found some of my fabric so I've only spent \$24 which has come way under my client's budget specified in the brief. The other sample I have done was for my machine embroidery. I've tried two methods for this, one was freehand and the other was on the Bernina machine. For the freehand one I got the letters printed out in the right font and size and I traced it onto some calico with pencil. I then went over it with freehand machine embroidery. This turned out nicely but wasn't completely accurate to how the font looked and it took a long time to complete. Luckily both of these things can be improved by using the Bernina machine which would do it for me. So I put the letters in the right size and font into the computer (in the right application that goes into the sewing machine) but it wouldn't work on the sewing machine. I left it with MKK to try and do but it still hasn't worked yet. When I do the machine embroidery on the actual dress I will need to put

some interfacing on the back of the fabric to strengthen the fabric, especially because it's such stretchy fabric. I then had some problems finding a pattern. I tried looking on the Burda website but they didn't have anything I was looking for so I had a look at home and found a dress pattern but it had a zip in the back and ties at the side which I could have taken out but then I realized it would just be easier finding a t-shirt pattern and extending it. When I looked for a t-shirt pattern at home I found the perfect pattern for what I need, a t-shirt dress. However it was about 3 sizes too big, I was going to make it smaller by grading but this was going to take too long and I'm starting to get behind anyway. So I went to a shop to see if they would have a smaller size of the pattern or a smaller size of the t-shirt pattern I had but they didn't. My final solution for this problem was to get a t-shirt of my sister's and trace it and then extend it. This will work really well because it will be exactly the right size for her because her t-shirt already fits her well. I may need to take it in a tiny bit at the waist to make it slightly more fitted and also add 1.5cm seam allowance to the side seam only to make the pockets work. Today I traced the t-shirt and tomorrow at school I will get help on how to extend it and how to do the pocket and sleeve pieces. In the meantime while I was looking for a pattern I made a pattern piece for my feather pieces for the sleeve. Once I had made this I could work out how many I would need (feathers) for each sleeve I did this by tracing a sleeve pattern piece from another pattern and worked out how long I wanted the feathers to be. I then cut out quite a few of these pieces and lay them on the sleeve. I want to cover the sleeve completely but I can't have too many feather pieces otherwise it will get too heavy and annoying when she plays tennis. ~~So~~ I think that if I shorten the sleeve quite a bit then 6 pieces will be the right amount. I need to remember that before I sew these feathers onto the sleeve I will need to use a zig zag stitch around the edge of each piece because it is a stretchy fabric and it will curl in at the edges, this will stop it doing so. I will also need to stitch each piece down to the bottom of the sleeve so they don't flap around too much and annoy her. The last pattern piece I will need to make will be the ruffle which I will need to find out how to do. I am a bit behind because I missed 3 periods when I was away for the weekend with my family and also because of the pattern problem. This means

that I am going to need to work quickly and with lots of focus to finish by the end of next week. I may need to come in a few lunchtimes but I believe that I will finish. I haven't chosen a design that is too complicated so that would help a lot. This week I need to finish my pattern, cut out my fabric, do my screenprinting and start sewing. I will need to check if I need to do my machine embroidery before or after I sew the front and back together. I am meeting my brief specifications by being way within the budget, and my design meets the brief in lots of ways that are mentioned on the final design page.

Pattern



This was the pattern I wanted to use because it is the right shape for my design however it only come in size 12-24 but I needed size 6-10.



This is the t-shirt of Bridie's which I'm using to copy the pattern from. It is pretty much the right shape for my design I just need to extend the bottom make pockets and shorten the sleeves. I will also need to make a piece for the ruffle around the bottom, the featury sleeves and a band to go round the neckline.



Extended to about here



I used kitchen paper to trace half of both the front and back ending up with pattern pieces like this:

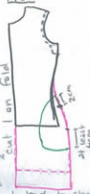
Equipment used: baking paper, newsprint, tape measure, t-shirt, light desk ruler

Sleeve

Cut 2

I made the sleeve piece by measuring around the armhole on both the front and back pieces and drawing the similar shape on with the dotted lines. The shape on both sides were the same size. I had to change it slightly so it would fit into the dress right and then made it big enough for her hand and a

Front



Back

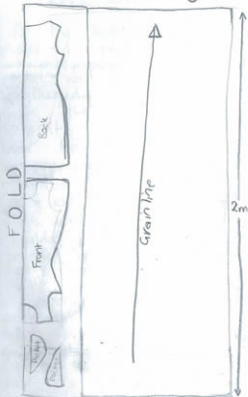


I then extended the pattern by about 30cm and made it wider & shaped to fit over her hips and so the end would fit be too narrow when she plays. I tried it on her and took it up to the dotted line because that's where she wants it to finish.

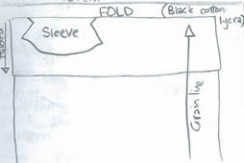
Cut 2

I made the pattern piece on the front pattern piece first so it would fit into the dress right and then made it big enough for her hand and a

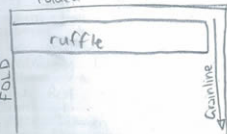
Pattern 124



folded → width = 150cm (beige cotton lycra)



folded →



(black)

My fabric twisted slightly in the wash so I found it hard to fold over the whole fabric to put each piece onto the fabric at the same time so instead I dealt with each piece individually folding over a small section then cutting out a piece then doing the same for the next pieces.



1st I cut out the back piece



then I cut out the front



then the pockets. I needed four so I folded the fabric over but had to do it twice



I had to fold the fabric at the top rather than the side for this one so the grainline was going down the sleeve.



This is the piece for the bottom ruffle

Reflection 24 August

At the beginning of this week I made the body pattern pieces. I traced my sister's t-shirt, added 1cm seam allowance - except around the sides which were 1.5cm so the pocket will fit into it - and I lengthened it. When I lengthened it I had to make the new section wider than the top so that it will fit over her hips and so it will be able to stretch as she moves and not bust seams. I got the width by using her hip measurements, adding a few more centimeters for room for movement then divided it by 4 to put on the pattern. ($90 + 10 = 100 \div 4 = 25\text{cm}$). I started to make the sleeve piece by putting the front and back pieces together at the shoulder seam and using the light desk to trace the shape of the armhole. I had to make the top of the sleeve the same length as the whole armhole even though they're slightly different shapes. I worked out that using lots of separate feather pieces on the sleeve will take too long to sew on. Instead I will make one piece in the shape of lots of different pieces. This will save a lot of time. I then cut out my front and back. On Tuesday I didn't have fabrics but I came in at lunchtime to get some work done. I set up 2 screens so when I printed the next day, I would be able to quickly. I also needed to work out where to put the print. As it is going down right along the bottom and side edges. This meant if I was going to have to take it up or in, I would need to do it before I printed. So I sewed the dress together quickly with a ~~long~~ stitch length and got my sister to try it on. I worked out by getting her to stretch and lunge in it, that the dress ~~was~~ wide enough but she wanted me to take it up a lot. I marked the point she wanted it taken up to and marked it on the pattern. Once I had unpicked the temporary seam I used the pattern and cut off the rest bottom. I also started the pocket piece drawing it so it started where she wants it and so it will be big enough (width & depth) to fit a tennis ball and her hand in. I drew it on the body pattern to begin with so the shape was right for me to be able to fit it in the body when I sew it. On Wednesday I did my screenprint. I used opaque ink for all 3 colours to make them stand out better and last longer. The first screen went really well and so did the 2nd until I realised I had forgotten to include the floating piece between the birds legs. However I solved this problem by cutting the piece between the birds legs on the last screen so it will be printed over the black in white. This worked well. This week is when it needs to be handed in. I need to do in the

machine embroidery, cut out the sleeves and the ruffle and then sew it all together. I think I'll be able to get it done if I come in at lunch and maybe before school. Problems that might occur this week will be using the Bernina machine to do my embroidery. It didn't work for my sample and also Robyn is using the machine as well. I will need to negotiate with her to be able to use it to do the embroidery which hopefully won't take long.

Screenprint

equipment used to make print = photo copier (with settings changed so it could photo copy on to an OHT), OHT, craft knife, cutting board

equipment used to do print = screen, squeegee, opaque screenprinting ink

includes 2 HTO sheets, floating pieces taped to one

My design was simple enough to do (the shape) so I didn't need to use photographic screen printing methods.

Reflection 25 / August

Today I completed my machine embroidery (with lots of problems) ~~but~~ Ms Merrick managed to get my sample to work so this meant I could do my actual one too. I put some interfacing on the back but didn't iron it (would do after). However the interfacing wasn't enough and so the fabric was too flimsy and the thread kept snapping. I should have tried a sample on the fabric I'm using first. To fix this I ironed 2 layers onto another piece of the fabric and then added a strip of Calico onto the back of that and tried again. This time it worked perfectly. I then sewed a yoke on the inside of the back to cover up the mistake and then used the new piece of machine embroidery to sew over the outside of it like a label. I had to cut the corners off the label so that when I sewed the seam allowance under the corners were nice and not too bulky. This assembly took up ~~most~~ ^{part} of our class time today so the only other thing I did was fix the sleeves pattern so the sides were the same length and added 2cm seam allowance on the bottom ~~and~~ making it come out diagonally so when it's folded up it will be the same shape as the sleeve. When I got home I went straight into trying to make the sleeve so it had the feathers. I tried having the feathers coming off one to work and so cut out and sewed a mock sleeve but it didn't work how I wanted it to the feather bits being funny and didn't look like feathers they were meant to. I think because of the time I've already made a pattern piece for. If this means I haven't used enough techniques then I will either applique a feather onto the sleeves or cut out a feather shape and have a piece of the different colour fabric on the other side showing through. So I cut out the black sleeves tomorrow either before school or at lunch. ~~if~~ if there are no problems with my sleeves I will start sewing the dress together. I will definitely sew the shoulder seams but with no problems I'll continue on with the sleeves and side seams and pocket. Then I will have left will be the neck line (need to tidy it up) and the ruffle (need to make pattern for a long band gather & sew + overlocking everything).



This was when the sample was being done. It worked really well. Didn't have any problems with threads snapping.



This was setting it up to start on my real thing.

Shows where it's going to start



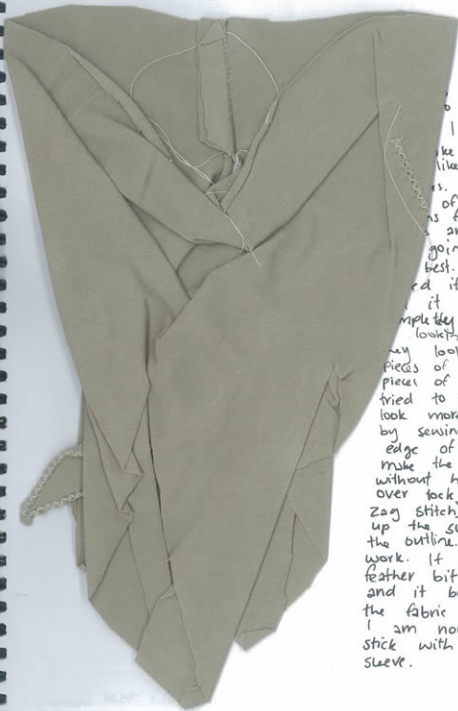
However the threads kept snapping because the fabric wasn't strong enough even with a layer of interfacing



These are the two ^{sections} ~~pieces~~ where the thread kept snapping.

I gave up, covered it up, made a new one and sewed that on top. (New one had two layers of interfacing and one layer of calico)

Feathery Sleeve Sample



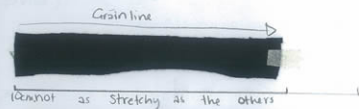
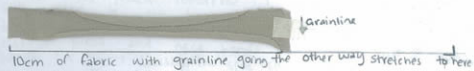
how I was do my I was trying like the sleeve like it was made of different s for pattern and this one going to work best. Then I ed it together it turned out simple they wrong. (instead looking like feather may look like limp pieces of oddly shaped pieces of fabric. I tried to make them look more like feathers by sewing around the edge of one (to make the edges nice without having to over lock - using zig zag stitch) and continue up the sleeve to mark the outline. This didn't work. It made the feather bit curl funny and it bunched up the fabric on the sleeve I am now going to stick with a plain sleeve.

Equipment used: machine - straight stitch # zig zag

Fabric

I am using a cotton lycra knit fabric which is very stretchy. This is good for what I am making because it will stretch with my client as she plays. Also I don't need to use zips or buttons so she can get it on, she can just pull it over her head but it will be quite fitted. Not having zips or buttons will be better for my client because if they were there they could irritate her as she plays.

Grainline →



Edges will need to be overlapped or else they will curl. Having the grainline going down (which is what normally happens anyway) will be best so the stretch goes across her body not down which would be good for her movements and for fitting.

Equipment used: overlocker, iron



This is the closest fitting colour overlocking rather than the black or white

This is the interfacing I used on the back of my machine embroidery to strengthen the fabric. I started by using 1 layer but it wasn't enough

Reflection 26/August

Today at lunchtime I sewed my shoulder seams and sewed in my sleeves. I am able to use plain ~~seams~~ sleeves because I am using screen printing, machine embroidery, working with kni material and the ruffle on the bottom is my techniques and Mikik said that would be enough. I then overlapped the seams I sewed making the shoulder seam allowance go towards the back and the sleeve seam allowance go down the sleeve to make them the least bulky and irritating as possible. When I was sewing (mainly on the ~~shoulder seam~~ shoulder seam) the thread from the bobbin wasn't always being caught by the needle making some stitches longer than the others. I tried using a different needle (a ball point needle) which helped but didn't completely fix it. However because I'm overlocking the seams as well, it doesn't matter too much. Tomorrow I will sew the side seams but will need to ask how to do the pockets which happens at the same time. Then I will find out how big to make the ruffle piece and neck bands so I can cut them out at home (or if I finish the side seams) so I'll be ready to sew them on Thursday so I can finish on time (Thursday last period.)

Extra pattern pieces

Binding for around neck line



$18 + 28 = 46$ - this means the whole piece needs to be 46cm but if the piece is cut out on the fold (which will be easier) it will only need to be 23cm. It needs to be 5cm wide.

From the 23cm I need to minus 1.5cm (3cm all up) so I can stretch the binding round the neckline.

Yolk

Because the machine embroidery got screwed up to cover up the inside which looked messy, I made a piece to cover it inside and look like a design feature on the other side. I used the back bodice piece to help make this by tracing it up and cutting out a shape like the pink by line.



This is what it looked like



This is what the back piece looks like with the yolk sewen in.

Ruffle

The piece for the ruffle on the bottom is just a long band. Because I'm going to gather it to make it ruffy it needs to be even bigger than that skirt. I ~~measured~~ measured the circumference of the skirt and add half so it will be $106 + 53 = 159$ (will round to 160 - if there's too much I can cut it off after). If I place the pattern on Bridie and she showed me where she wanted it to come down to on her. This length plus 1cm seam allowance = 10cm but I'm going to fold it over because it will be quicker than hemming the whole ruffle piece and it won't leave a raw edge and it will give the ruffle more body and fullness.



160cm

10cm

53cm (front & back)

I will gather this and then sew it to...

Reflection 27/August

Today I ~~finished~~ ^{sewed} my side seams and pockets, made my first 2 pattern pieces, and sewed the hem of my sleeves and sewed the gathering stitch for my ruffle. First I sewed the pockets. I started by sewing a seam ^{of} 1 cm from the edge but only where the opening of the pocket would be. I put the right sides of the pocket and dress together and did the same for all four pocket pieces. I then snipped up to but not past the edges of these seams. I put the pockets (front left to back left etc.) together right sides in and sewed round the inside edge of the pocket stopping 1cm away from the side seam. Then I overlocked it. I turned the pockets round to the front (because it doesn't make sense to put them at the back) and sewed the side seam from the edge of the sleeve to the top of the pocket opening then from the bottom of the pocket opening down to the hem. I over lapped the pocket opening by 2mm so there would be no gaps. I then over locked the side seams. ~~After~~ I had a few problems with matching the edges of the sleeve in the armhole seam so I had to unpick that part of the side seam and do it again a few times but managed to get it right. I had 2 pattern pieces to make still so I made those. One was the binding for the neckline which had to be 25 cm long as the circumference of the neckline ~~and~~ minus 3cm for stretch and 5cm wide. The other piece was for the band for the bottom ruffle. This had to be the circumference of the bottom of the skirt plus half again and I worked out with my client where she wanted the skirt to finish and made it that long. I had to double this because instead of hemming the ruffle (which would take a long time) ~~and~~ or leaving it a raw edge (which would look messy and would curl) I am folding it over so I had to add 1cm seam allowance to both sides. I then tried a smaller sample of this ruffle which worked and looks really good. I had to hem the sleeve edges. I used a twin needle to do this (after overlocking and folding back about 1.5cm) and so had to sew ^{with} the outside edge or which made it harder to know if I was getting the folded over edge so I just sewed at 1cm. The double needle meant the seam was slightly stronger but also it looks a lot more professional and well made. It is also how her t-shirt was made (the one I copied the pattern off) which looks nice. The last thing I did was sew a gathering stitch with stitch length 5 along the edges of the folded over ruffle piece sewing it at 6mm. Tomorrow I need to finish my garment, all I have left is the ruffle and the binding.

a quick binding sample) and I have lunch and last period. The thing that will take the longest will be the gathering for the ruffle. I'm not sure if I will finish my bookwork (I reflection and the evaluation) but I will try my best to do so, at worst case I will stay after school to do it.

Ruffle Sample



I sewed a row of stitching at the top of the black fabric (folded in half - sewed both edges) with a stitch length 5, no back tacking. I then pulled the thread edges to gather it up. Then I sewed the black onto the beige. I really like the effect. The gathering is quite a lot so I will probably need all of the extra fabric in the band.



She wants it down here



This is the dress on my sister without the ruffle. She showed me where she wants it to come down to but otherwise it fits well and it fits.

These are showing the pockets. The 1st one has a tennis ball in it so they fit fine and sit well on her body while in her pocket (won't move when she plays). And the 2nd is with her hand in it.

Reflection 28 / August

Today I started by doing my gathering. I gathered it up so it was gathered evenly and so it was as long as the skirt. I then realised I had to sew the gathered piece together at the end so did this by folding it in half then sewing the edges but then the seam was on the outside. To make it ~~neat~~ less bulky and ~~isn't irritating~~ also more quality I unpicked this seam and a small section of the gathering stitch so I could sew the whole width of the band right sides together so the seam would be inside. Then I pinned the gathered band to the skirt matching up each ~~one~~ quarter (folded in half then in half again). Then sewed them together. I had to unpick one of the side seams because it was sewn towards the back but it needed to be sewn towards the front so the pockets would stay towards the front. Then overlocked. Had to go back over a few spots because the beige hadn't been caught up. I could do a row of stitching along the bottom to keep the ~~bottom~~ ruffle down but I think the weight of the ruffle will keep it down by itself. Then I did the binding around the neckline. I used the iron and folded the edges into the middle of the band (lengthwise). I then folded the entire band almost in half just so one of the edges was a few mm below the other. This was so because I am using the twin needle I ~~so~~ can't see the back but will definitely catch both sides sewing them. I pinned it on the same way as I pinned the ruffle (in quarters) and sewed it on. This makes the neck look very professionally finished. The last thing I had to do was unpick a patch where the overlocker had caught the dress and then re overlock it. Then I was done.

Evaluation

I'm really pleased with how my garment turned out. I think it looks really professionally made and good quality. My solution meets the constraints ~~and~~ because I came \$26 dollars under budget, it fits her perfectly. I have included techniques that I explored in our last project and it fits the purpose of a tennis dress. Because I didn't buy a pattern and I only needed to buy one of my fabrics which cost \$12 a metre (I got two) I only spent \$24 and my client's budget was \$50. Throughout making the garment I kept trying it on my client. This meant that it fit her well because I could alter it if it didn't. Also because I used a pattern from one of her t-shirts this meant that it would fit her quite well anyway since her t-shirt fits her well. It fits the purpose of a tennis dress because it is light, it stretches, it is breathable, the pockets fit a tennis ball and her hand, it moves well with her and there's nothing that will distract or irritate her. It meets and exceeds the specifications because it won't make her too hot or too cold (breathable fabric but still has some length), it won't have any restrictions on her movement (because of the stretch and the skirt is quite wide), it is machine washable (the fabric is able to be washed in a machine and there is no details that will be ruined in a machine), it comes just above the knee (she specified where she wanted it to come down to when it was on her) and it has sleeves and it isn't dark colours (except the trims & sleeves) so it won't attract the sun. Because the dress has no intricate details or flimsy bits it will be able to last a long time. The fabric isn't flimsy and might fade in colour slightly. The only thing that will definitely change over time will be the screen print which will fade. ~~My~~ My design would be very viable. It is easy to make where the only tricky bits (only because they're time consuming) are the screenprint and machine embroidery. However they compare very well ~~into~~ cost ~~as~~ with other products similar to this. Tennis outfits are usually at least \$60 plus and often you can only buy shirts and skirts separately. T-shirts and dresses sold in regular clothing stores would definitely be more expensive than this. If I had to buy the black fabric also, it would have been a bit more expensive but not too much more still around \$50 which is less than what you'd get in a shop. The stretch may get stretchier and more relaxed over time also making it slightly more baggy but since it fits her really well now it shouldn't make too much difference or matter too much.

Questions for wider stakeholders

1. Do you like it? What do you like about it?
2. Would you buy it? How much do you think it'd be worth?
3. Do you think it's suitable for a tennis dress?
4. Do you think it will look good on Bridie?
5. Anything else about it?

Bronwyn Sweeney 44 (my client's mother)

1. I love it, I love the colours, I especially like the screenprint, I like the simplicity of it, it's the sort of thing I would buy and I would even consider buying one to wear for casual wear not just for tennis I think quite a few different age groups would wear it. I think the New Zealand flavour is really good eg the fantail but also the colours are beige & black - reminiscent of the New Zealand cricket team. I think it is simple, stylish and feminine.
 2. Yes definitely. I would expect to pay between \$80 - \$120
 3. Yes it looks comfortable and I like that it gives good sun protection I also think the careful attention to the pocket design will be great for Bridie because in interclub tennis she is expected to have 2 balls ready at the start of each point.
 4. Yep. If it was just all beige it would make her look washed out but the contrast of the sleeves and the colour of the screenprint really lift it.
- I think Bridie will be proud to wear it and the and the personalised initials will appeal to her.

Alex Kyne 14 (my client's friend)

1. Yes it's cool. I like the contrasting colours, I like the BT on the back of the neck, I like how it looks and I also like the print. Although I think it would look better with a lower neckline.
2. Doesn't know how much it'd sell for because doesn't know how much tennis dresses are sold for. It's not a style she'd wear but thinks it'd look good on Bridie. She thinks the length is good.

Imogen Zino 7th form Student

1. Do you like the dress? What do you like about it? (Only if you do like it of course! If not why don't you like it?)
YES. I really like the fantail print and the initials. Makes it very unique.
2. Would you buy it? If you saw it in a shop how much would you expect it to cost? (do you think it'd be worth)
YES. If it was being sold at a designer sports shop for actual sporting purposes \$320. If it was being sold at spacesuit \$90
3. Do you think it would be a suitable tennis dress?
Yes the main part of the fabric is not very dark so the sun wouldn't be absorbed very much, I think the fabric also looks like it may be tight fitting on the top half which my extensive knowledge of tennis players has led me to believe that's a good thing
4. Do you think it will look good on Bridie?
Yes she has the figure for something like that!
6. Anything else you would like to add?



