I have chosen to draw this toy in oblique because oblique shows the more complex side view of the toy effectively with a greater amount of detail. The three sides are not shown evenly which is an advantage because you are able to see the different heights of the arms on the 'Drummer' due to the movement of the mechanism. Isometric would have shown a more realistic view however seeing as I chose to draw in oblique 'Cabinet' it gives a greater realistic view compared to oblique 'Cavalier' this is because the depth is shown as half of the original size.

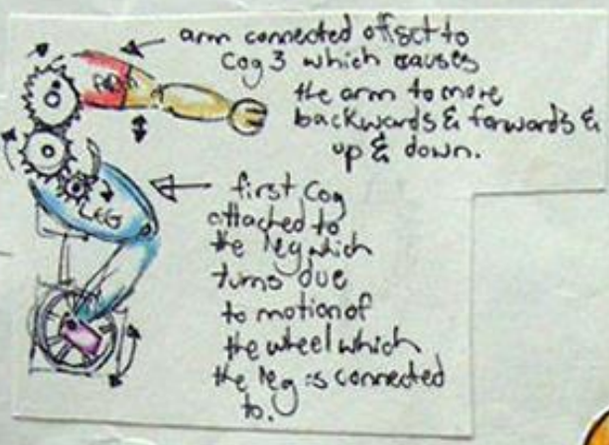
Sarah-Michelle Washer

Draughting Papers2008

NZQA
Assessed

TOY C

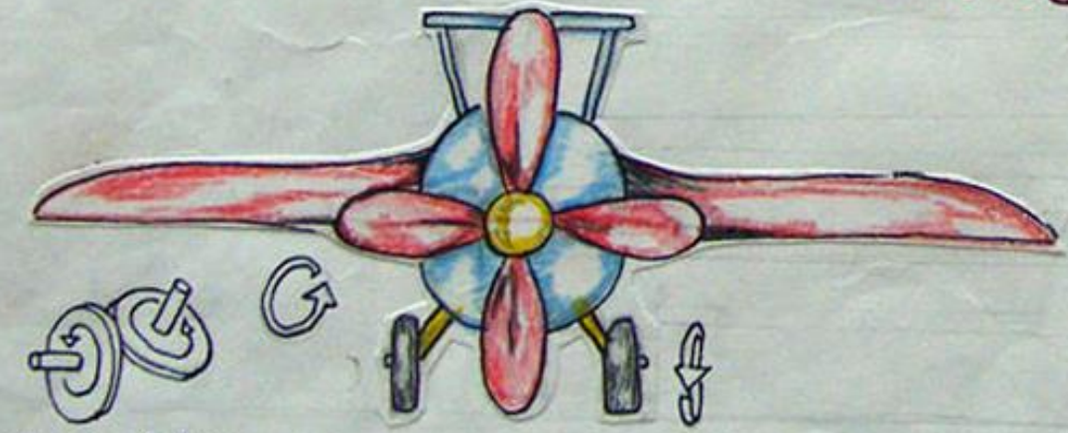
DIAGRAM OF HOW IT WORKS



Push Along Unicyclist
This concept uses a mechanism I designed myself including 3 cogs which rotate causing the arms to move around as the concept is pushed. I am not sure whether the mechanism would work though and it would need to be trialed. Or in replace of that mechanism it could use a quick return mechanism I found on the internet which would do the same thing. This concept is push along so that the object is more stable.

PUSH ALONG UNICYCLIST

PULL ALONG PLA



Change of Axis Rotation.

FRONT VIEW

Pull Along Plane
This concept uses a change axis of rotation mechanism which makes the propeller spin as the plane is pulled. The plane could be made out of wood and painted bright colours.

ONCEPTS

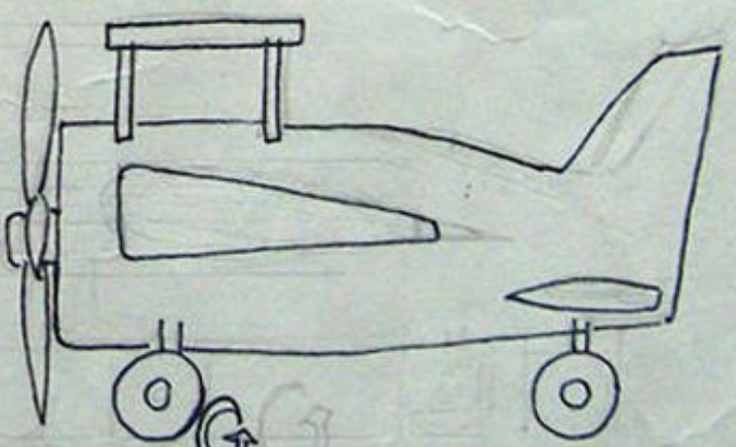
PULL ALONG GIRAFFE

Pull Along Giraffe
This concept uses bright colours to make it attractive and uses a cam and follower mechanism which makes the neck and head bob up and down as the wheels turn.

Detailed View Of Mechanism

RESEARCH PUSH ALONG DRUMMER

cam and follower

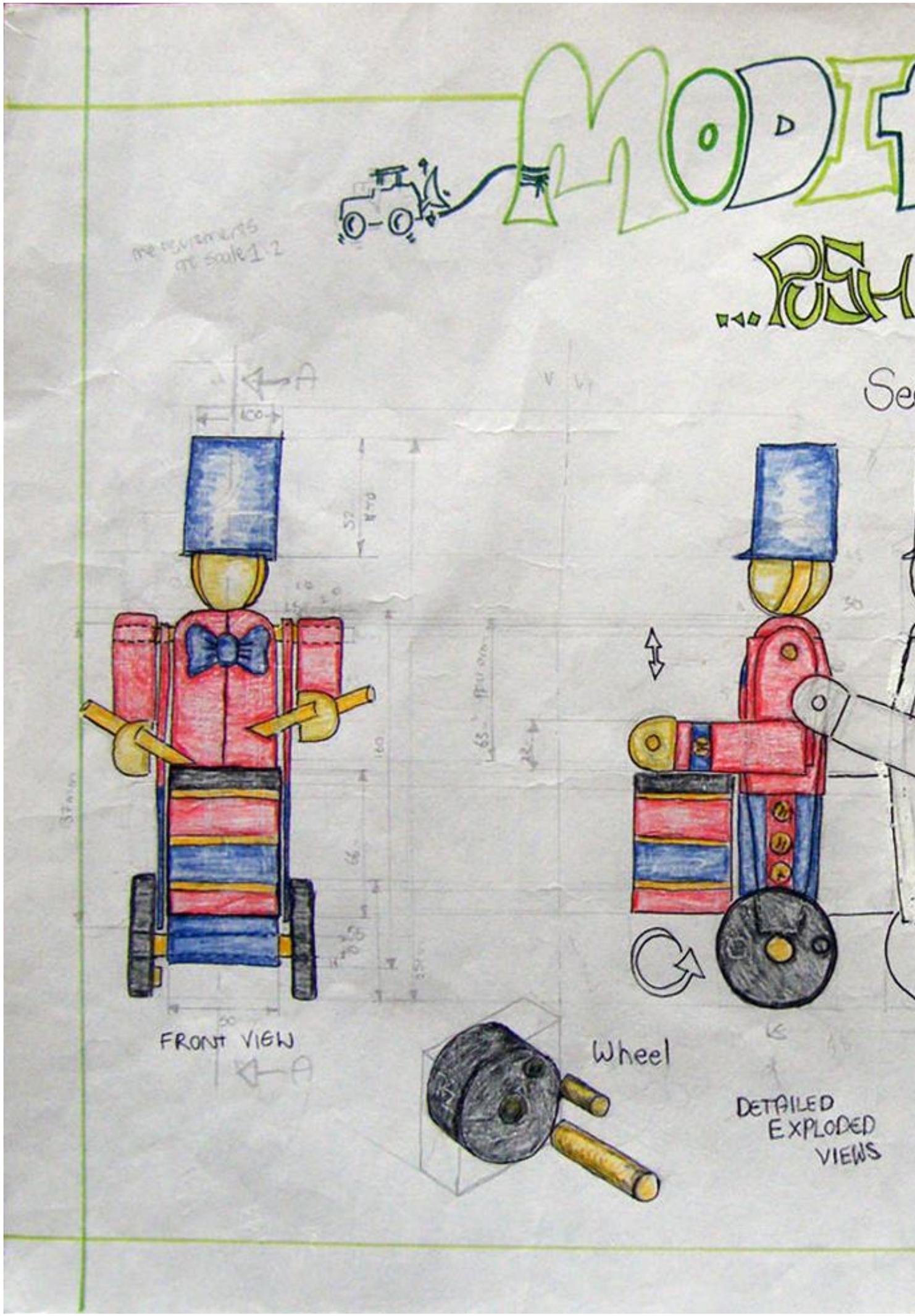


SIDE VIEW

PUSH ALONG DRUMMER

Push Along Drummer
This concept uses a rotating to linear mechanism shown in the detailed view. As the wheel rotates it causes the arms to move up and down and hit the drum. The drum creates noise which is good for the children.

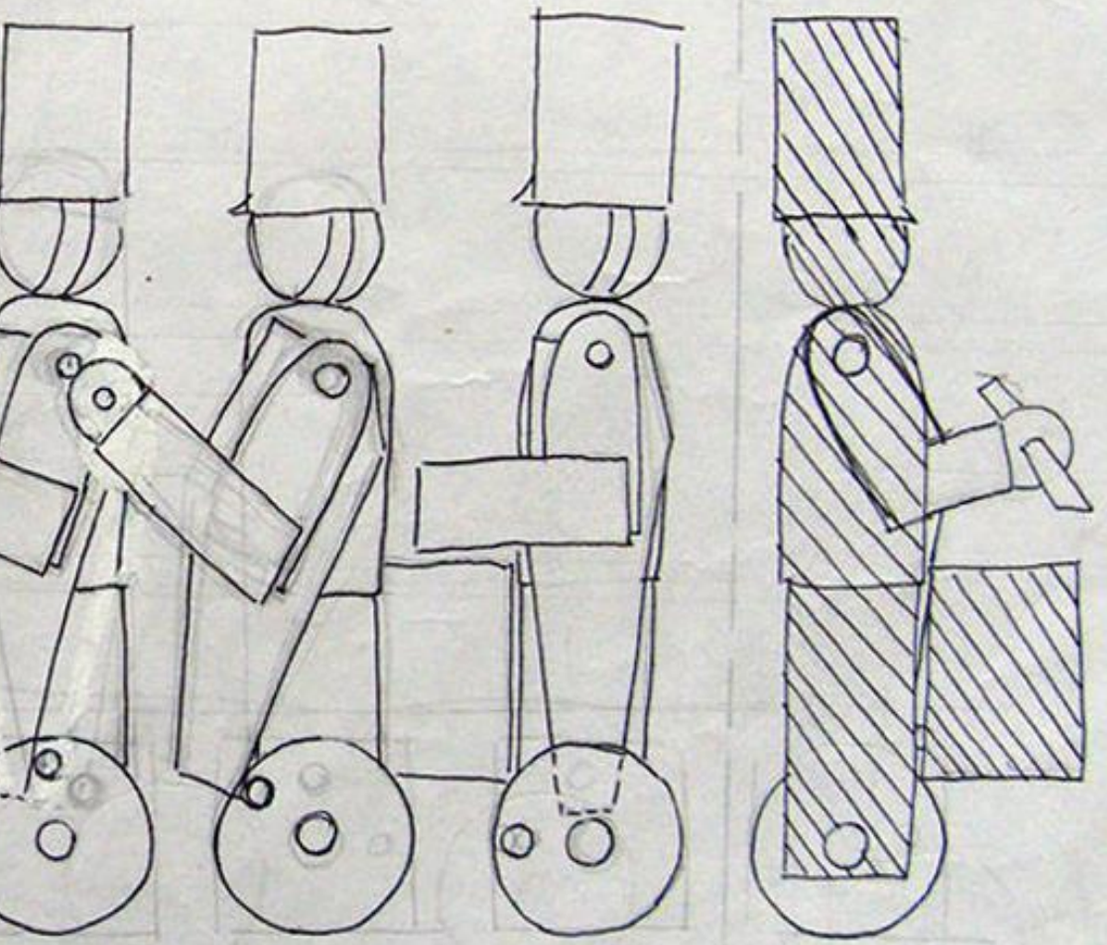
NZQA Assessed

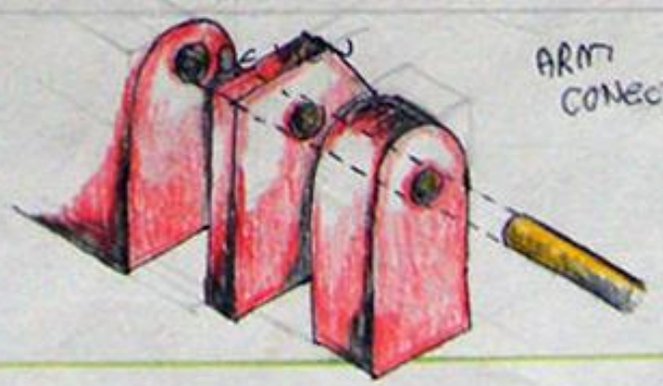

MODI
PUSH
Se
A
FRONT VIEW
A
Wheel
DETAILED
EXPLODED
VIEWS

...CATIONS

...ALONG DRUMMER...

...quential Sketches

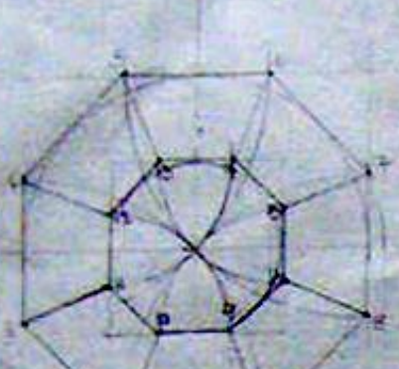




ARM CONECTION

Section Sketch

Sarah-Michelle Nasher



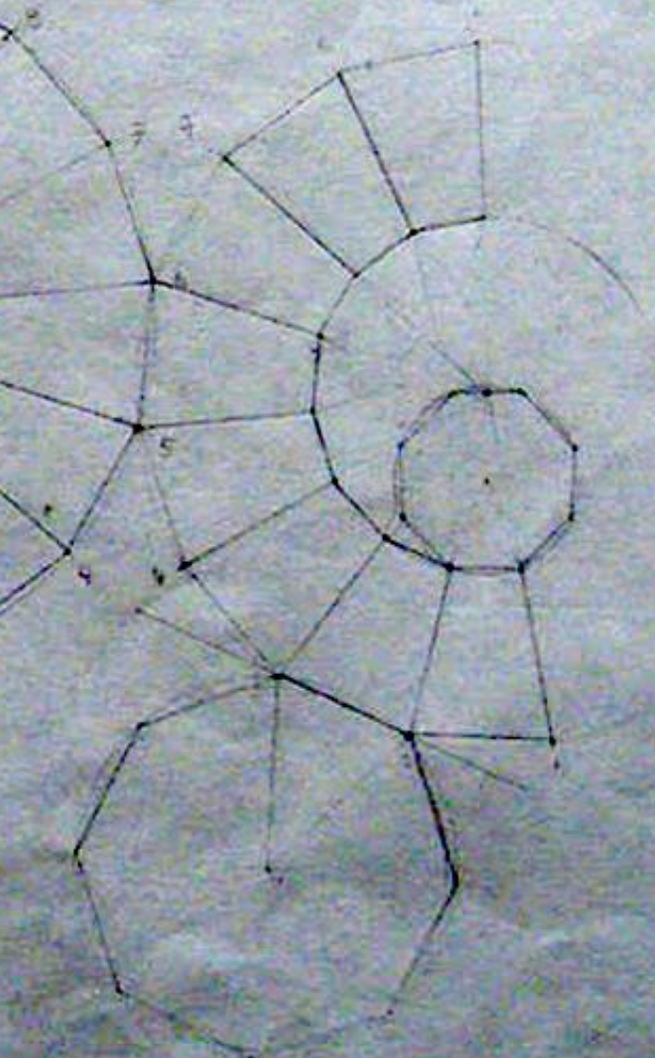
H

V

MARCH 2008

SCALE 1:1

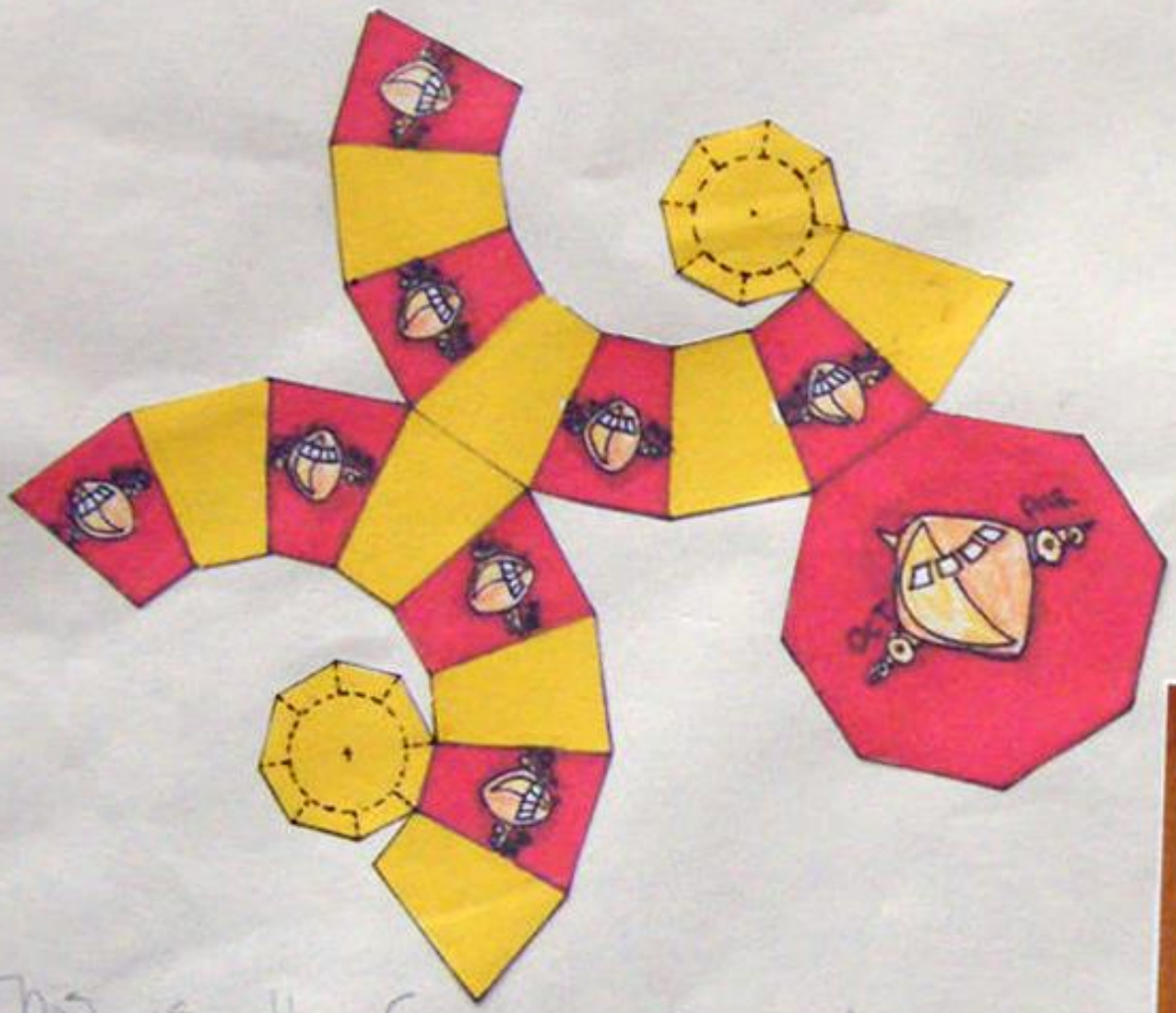
PACKAGE DEV



ELOPMENT

WASHER
NHS

Package

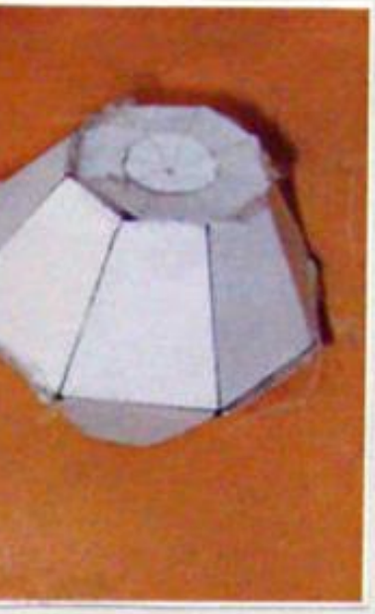


This is the final surface development net of the two truncated octagonal pyramids. This net shows the placement of logo and colour schemes.

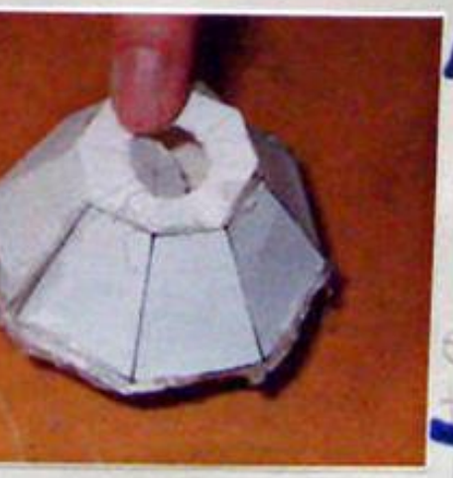
Note: showing the new size of the push holes & pull tabs.

SARAH-MICHELLE WASHER

Mock-Up



Mockup showing how the serations work. By poking the hole in the top of the package you get access to the peelings.



Then you peel each section back like a mandarin allowing easy access to the long.

Note will have to increase the size of the hole for bigger fingers.

Sarah-Michelle Wagner

FINAL DESIGN

Behind the seat is a brick planter bo
from concept 1. The flowers attract
also provide a lovely scent. In the to
symmetrical in shape to grass on the
all natural flowers such as flax and
modified from concept 2.

SCALE 1:50

The final design incorporates all specifications of the brief and includes a variety of colour and texture. As you leave the classroom you walk out onto a flat curvy pathway which leads to the other side of the garden then widens to become a decked area. The path is made from strong durable wood and prevents the children from getting dirt and mud into the classroom. The pathway incorporates tangential arcs. To the left is a parabola shaped grass area containing a large cherry tree which has been modified from the research page. The cherry tree provides natural shade which prevents the children getting sun burnt and provides a safe place where the children can sit and eat their lunch during the summer time. The shape is symmetrical to the planter box on the other side of the garden giving the garden balance. To the left is a set of swings on top of bark. The bark is a safety caution in case the children fall off the swings. The swings are made of steel which is strong and durable. They are for the enjoyment of the children. In the centre of the garden is an ellipse shaped grass area. This has been modified from my garden concept 3. The grass is encircled with a brick border which defines the shape and separates the grass area from the bark and path.The grass has an unusual shape to make the garden interesting and fun; it also is educational and teaches the children about different shapes. On the top left centre of the garden is a paved area which complies with the specifications of the brief and was modified from concept 2. The brick is long-lasting and strong. On the paved surface is a wooden seat attached to the wall behind by steel brackets (shown in the detailed view). The seat complies with the brief.

Modifications

x holding bright colourful flowers and is modified
bees and birds being educational for the children and
p right corner of the garden is a planter box
opposite side of the garden. The planter box holds
erns giving the garden a sense of kiwiana which is

3D FINAL DESIGN

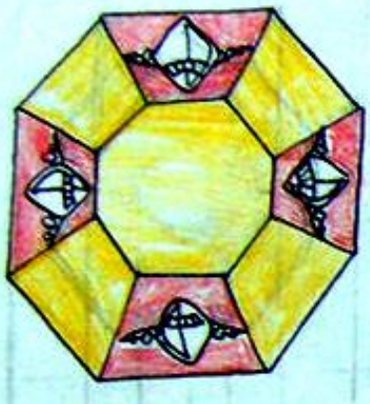
NZQA
Assesse

At the bottom right corner of the garden is a large shade sail which complies with the brief providing shade for the children. Below the shade sail are 6 multicoloured chairs which are the geometrical shapes because they are covered on every side and are literally cubes. This shaded area could be used as an outdoor area for teaching because it is safe from the harmful rays of the sun and is protected from the wind by the two corner walls.

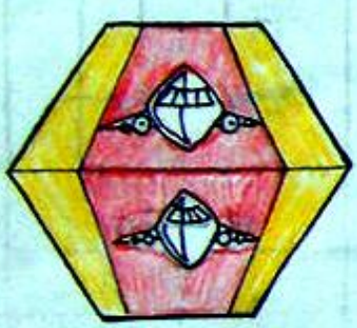
Final Design...

NZQA
Assessed

PACK



TOP VIEW



SIDE VIEW

THIS IS A SKETCH OF AN OCTAGONAL TRUNCATED PYRAMID SWEET PACKAGE. IT IS DESIGNED TO COMFORTABLY FIT TWO SWEETS.

30°

THE PACKAGE IS DESIGNED FOR EASY STORAGE AND FITS NICELY INTO A PERSONS HAND

THE COLOURS USED ARE BRIGHT AND HARMONIOUS AND GIVE THE PACKAGE A PLEASANT AND POSITIVE INFLUENCE. THE COLOURS ALSO GIVE THE IDEA THAT THE SWEETS INSIDE WILL BE DELICIOUS.

All are sketches with free hand, drawn with artline pen over the top.

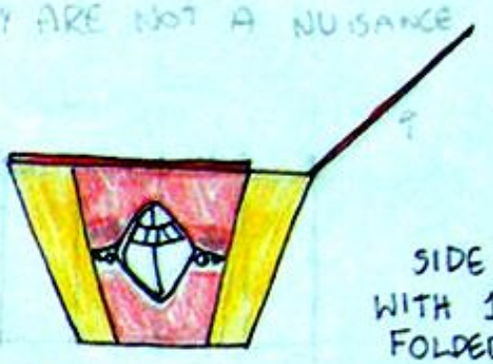
SARAH-MICHELLE WASHER
NGARUAWAHIA HIGH SCHOOL

MA

AGE

ONCE ALL FLAPS HAVE BEEN SEPARATE
THEY ALL FOLD DOWN ON EACH OTHER
SO THEY ARE NOT A NUISANCE

THEN YOU CAN TURN THE PACKAGE UPSIDE DOWN AND ACCESS THE SECOND SWEET THE SAME WAY YOU RETRIEVED THE FIRST SWEET



SIDE VIEW WITH 1 HALF FOLDED DOWN

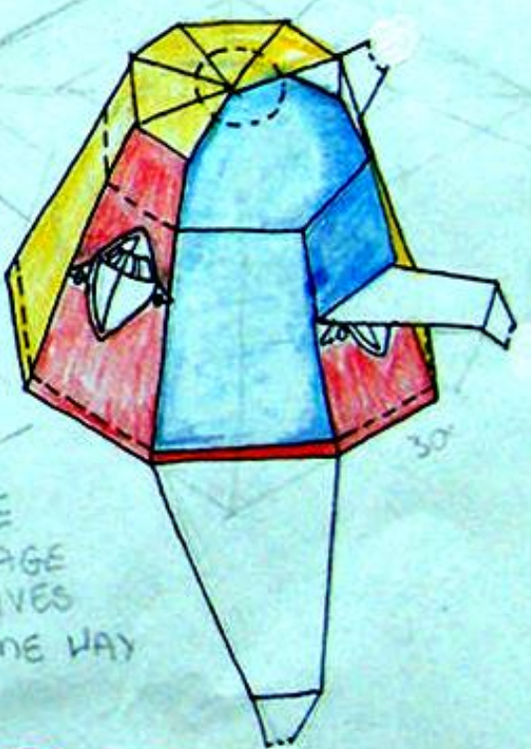
SOME-TRIC

HOW THE SWEET FITS IN

DETAILED VIEW

PUSH DOWN WITH FINGER TO ALLOW ACCESS TO THE FLAPS

LIFT FLAPS AS SHOWN WHICH ALLOW ACCESS TO THE SWEET



3"

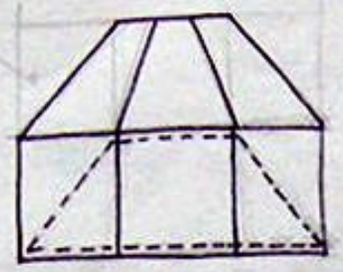
30°

THIS IS A SKETCH OF HALF OF THE SWEET PACKAGE BUT BOTH HALVES WORK THE SAME WAY

DIFFICATIONS

PACK

THIS PACKAGE CONCEPT FITS 2 SWEETS ONE ON TOP OF THE OTHER.



2D SIDEVIEW

THIS IS AN OBLIQUE SKETCH OF AN OCTAGONAL PYRAMID. THE TWO SWEETS FIT ONE ON TOP OF THE OTHER.

THIS IS AN ISOMETRIC SKET OF AN OCTAGONAL PRISM THE TWO SWEETS FIT ONE ON TOP OF THE OTHER

OBLIQUE

Logo SITS ON THE TOP & BOTTOM OF THE PACKAGE

BRIGHT HARMONIOUS COLOURS

THE LOGO'S SIT IN THE LIGHT GREEN AREAS SO YOU CAN SEE WHAT COMPANY IT IS FROM EVERY ANGLE.

ISOM

TO HELP WITH DESIGNING THE SWEET PACKAGES.

ISOMETRIC SHAPE OF THE LOLLY/SWEET (NOT TO SCALE)

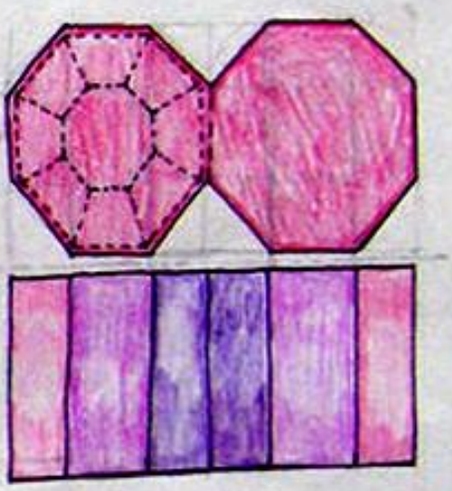
SARAH-MICHELLE WASHER : NGARUAWAHIA HIGH SCHOOL

AGE

Concepts...

BIRDS EYE VIEW

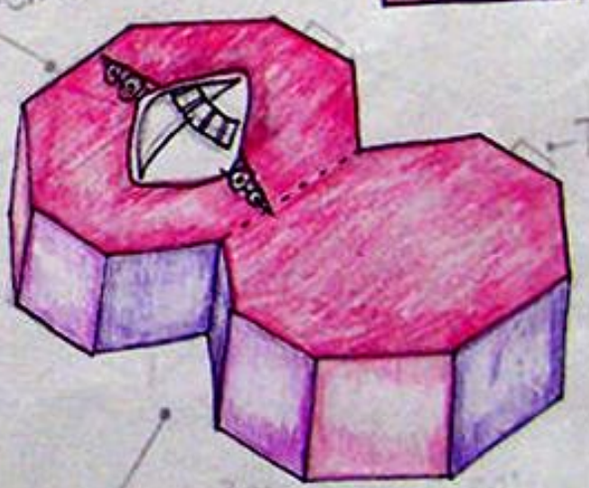
THIS IS A BIRDS EYE VIEW OF THE IMAGE DRAWN BELOW, THIS SHOWS HOW THE LOLLY FITS



SIDE VIEW

2D

TWO SEPARATE COMPARTMENTS TO KEEP EACH SWEET FRESH



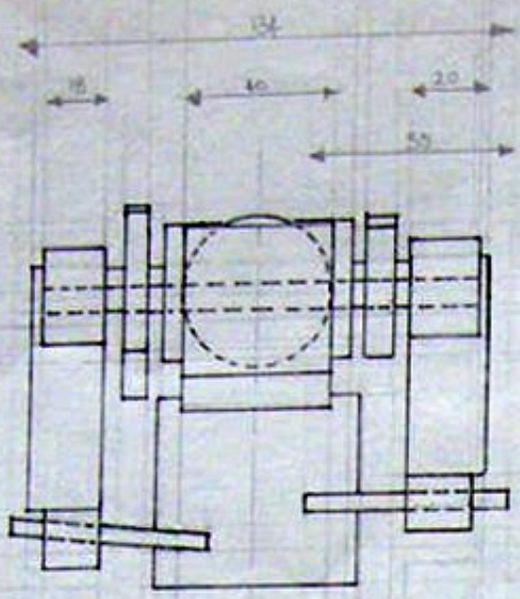
THIS TAB IS USED TO LIFT UP THE TOP OF THE PACKAGE TO GIVE YOU EASY ACCESS TO THE SWEET

THIS PACKAGE FITS 2 SWEETS SIDE BY SIDE PERFECTLY

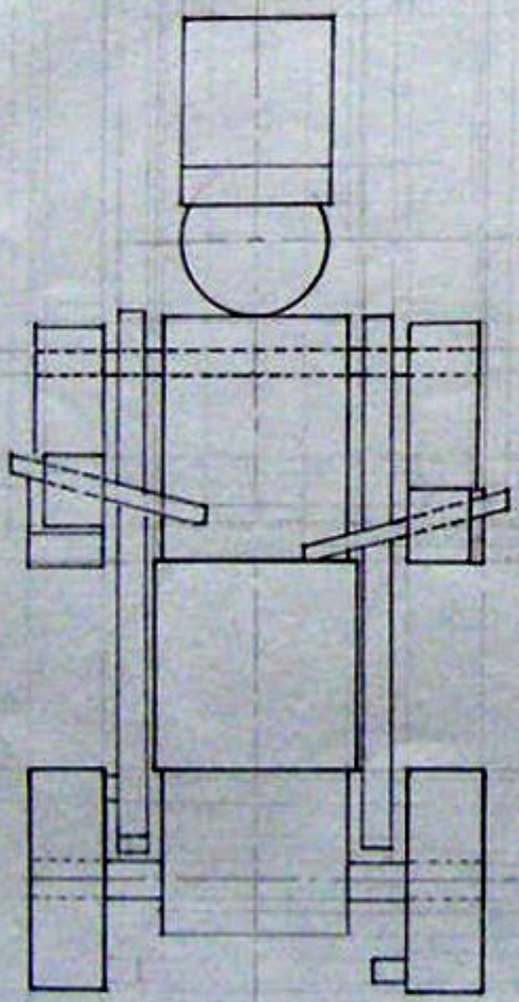
ISOMETRIC

NZQA Assessed

NZQA Assessed



PLAN

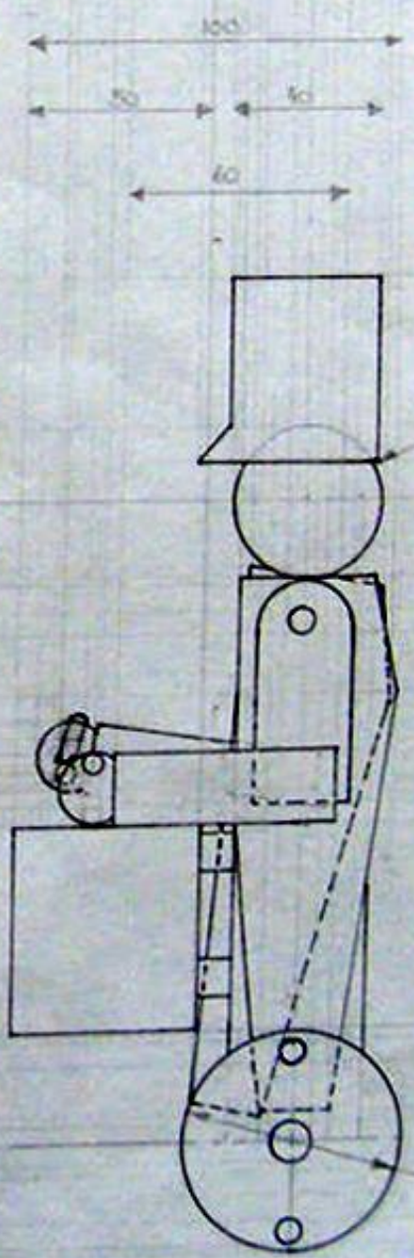


FRONT ELEVATION

12 SEPT 2006

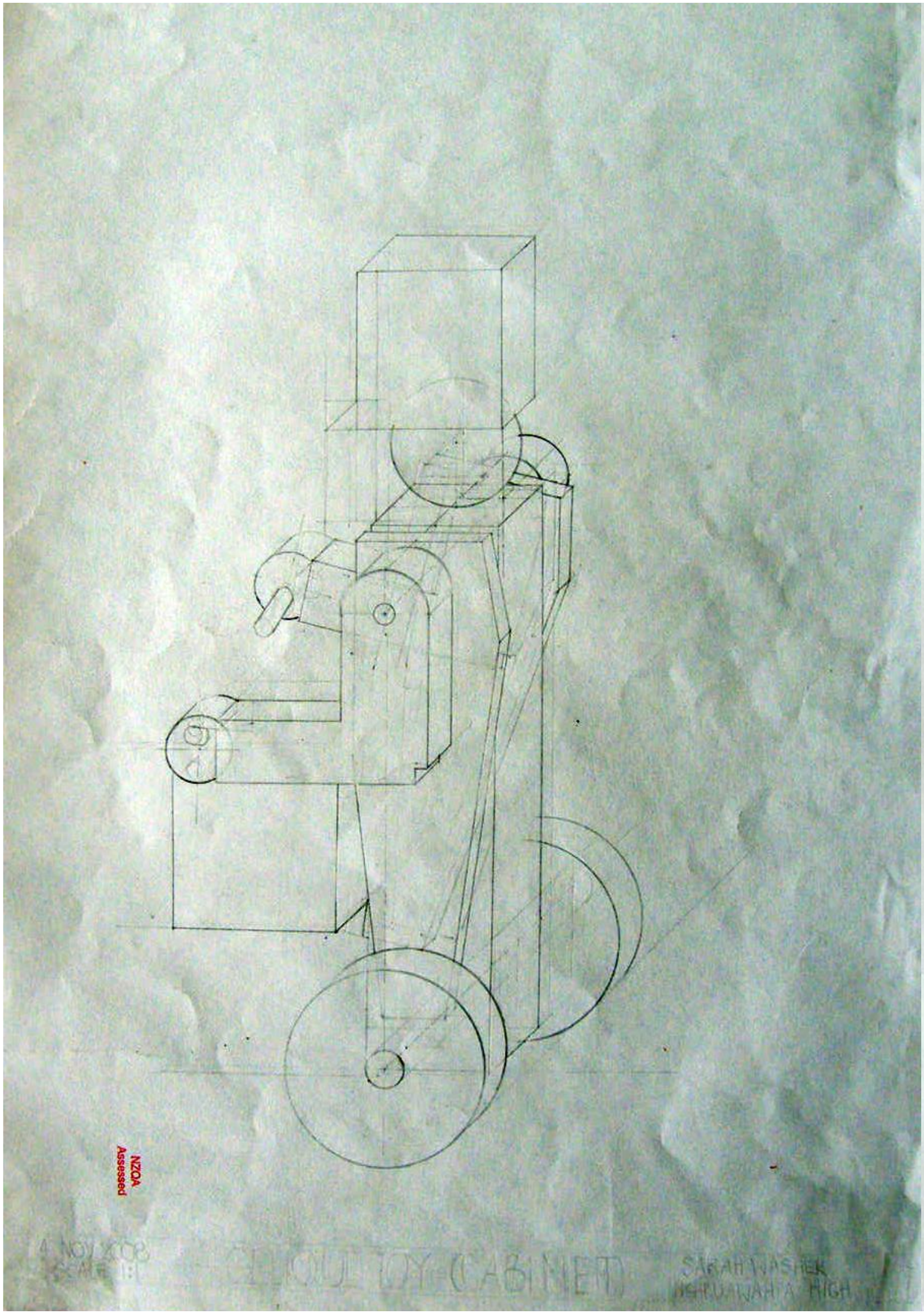
SCALE 1:2

PUSH ALONG TOY



SIDE ELEVATION

SARAH WASHER
NGAKUANAHIA HIGH



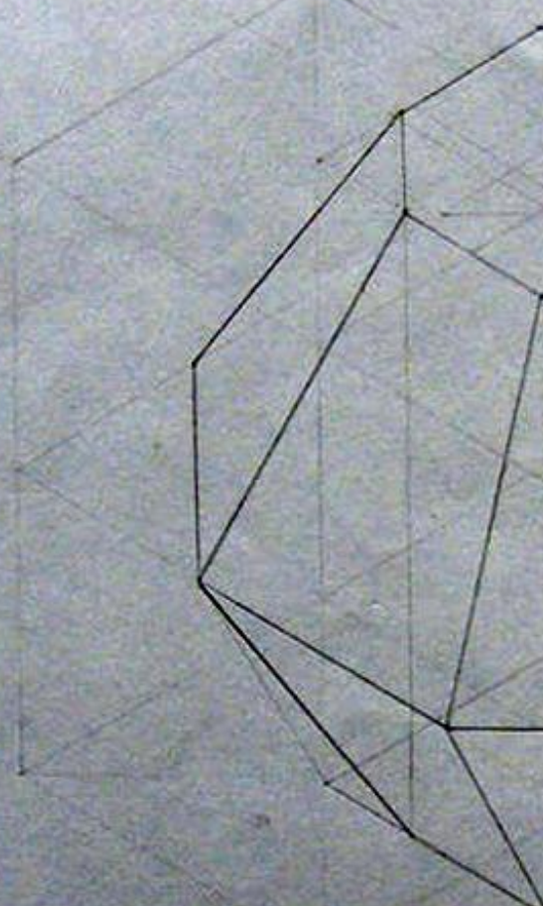
NZQA
Assessed

4 NOV 2008
SCALE 1:

SCHOOL TOY CABINET

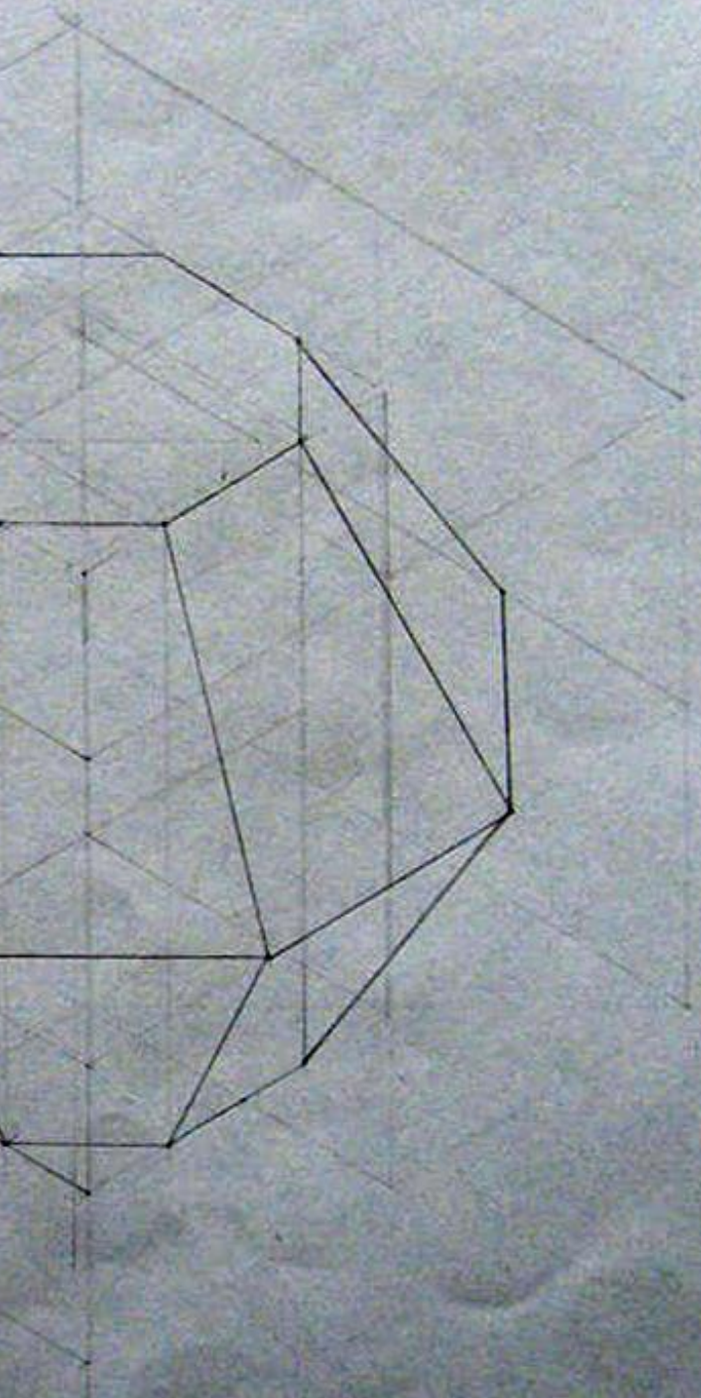
SARAH JASPER
NGUNGURU HIGH

have chosen to draw this toy in oblique because oblique shows the more complex side iew of the toy effectively with a greater amount of detail. The three sides are not shown venly which is an advantage because you are able to see the different heights of the arms n the 'Drummer' due to the movement of the mechanism. Isometric would have shown more realistic view however seeing as I chose to draw in oblique 'Cabinet' it gives a reater realistic view compared to oblique 'Cavalier'. This is because the depth is shown half of the original size.



OCTOBER 2008
SCALE 2:1

ISOMETRIC PICTORIAL VIEW



OF PACKAGE

SARAH WASHER
NHS

I chose to draw the 'Octair' package in isometric because it gives a more realistic view and it shows a lot of information about all 3 sides of the object. Isometric also clearly shows the measurements because they are transferred directly on.
I didn't use oblique or planometric because they only show the real measurements (true shape) of one side of the object and often look unrealistic and distorted. Also by using the different drawing methods a good understanding of the shape of the package wouldn't have been achieved.

SCALE 2:1