



## ENGGEN 115: Principles of Engineering Design

### Assignment Tracking Sheet

#### Student Information

|                |           |              |          |
|----------------|-----------|--------------|----------|
| University ID: | 806901416 | Username:    | vial080  |
| Family Name:   | Lal       | Given Names: | Vanshika |

#### Assignment Information

|                       |                                     |        |                                    |
|-----------------------|-------------------------------------|--------|------------------------------------|
| Assignment Name:      | Design Project 1: Toy playset - ... | Due:   | 5:00 p.m. - 12 Apr, 2019 (NZ Time) |
| Department:           |                                     |        |                                    |
| Lab / Tutorial Day:   | Thursday                            | Time:  | 16:00                              |
| Lab / Tutorial Group: | T18C                                | Tutor: | Saeed                              |
| Notes:                |                                     |        |                                    |

#### Declaration: (please read and sign)

By submitting this assignment, I confirm that I am aware of The University expectation that all students complete coursework with integrity and honesty as stated in the **Guidelines: Conduct of Coursework** available at:

<http://www.auckland.ac.nz/uoa/home/about/teaching-learning/honesty/tl-uni-regs-statutes-guidelines>

I confirm that this work represents my individual/ our team's effort and does not contain plagiarised material.

I have checked the above details and verify them to be correct for the assignment I am submitting.

I am aware of the course outline regarding the format, structure and submission of this assignment(see note 2 below)

I understand that the University of Auckland takes no responsibility for lost assignments and that I agree to provide a duplicate copy if requested

I understand that uncollected assignments will be retained in secure storage until two weeks after the start of the following semester and thereafter destroyed

I agree that I will provide or submit an electronic version of my work for computerised review if requested(see Note 3 below)

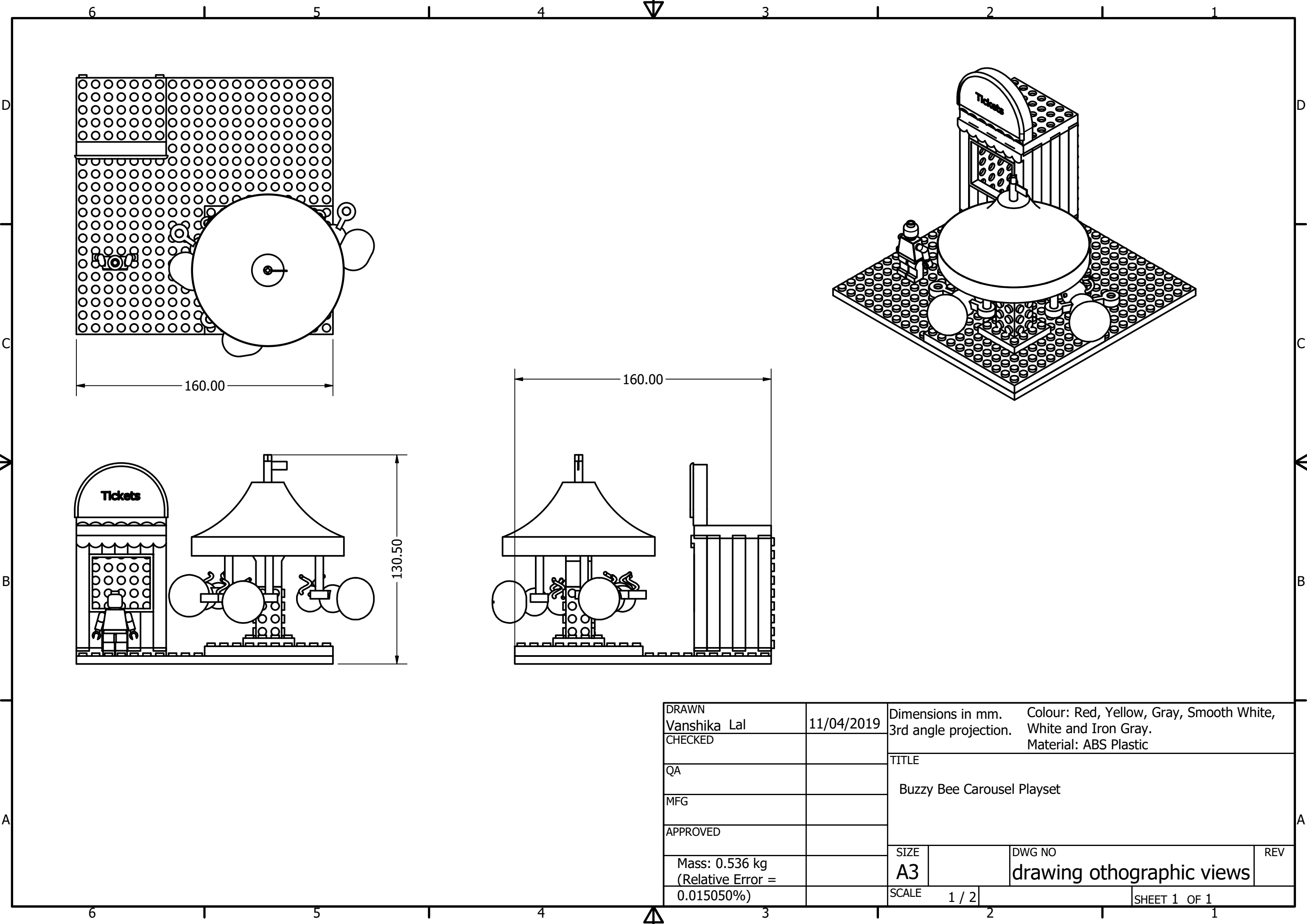
Signed:                     Vial                     Date:           11/04/2019          

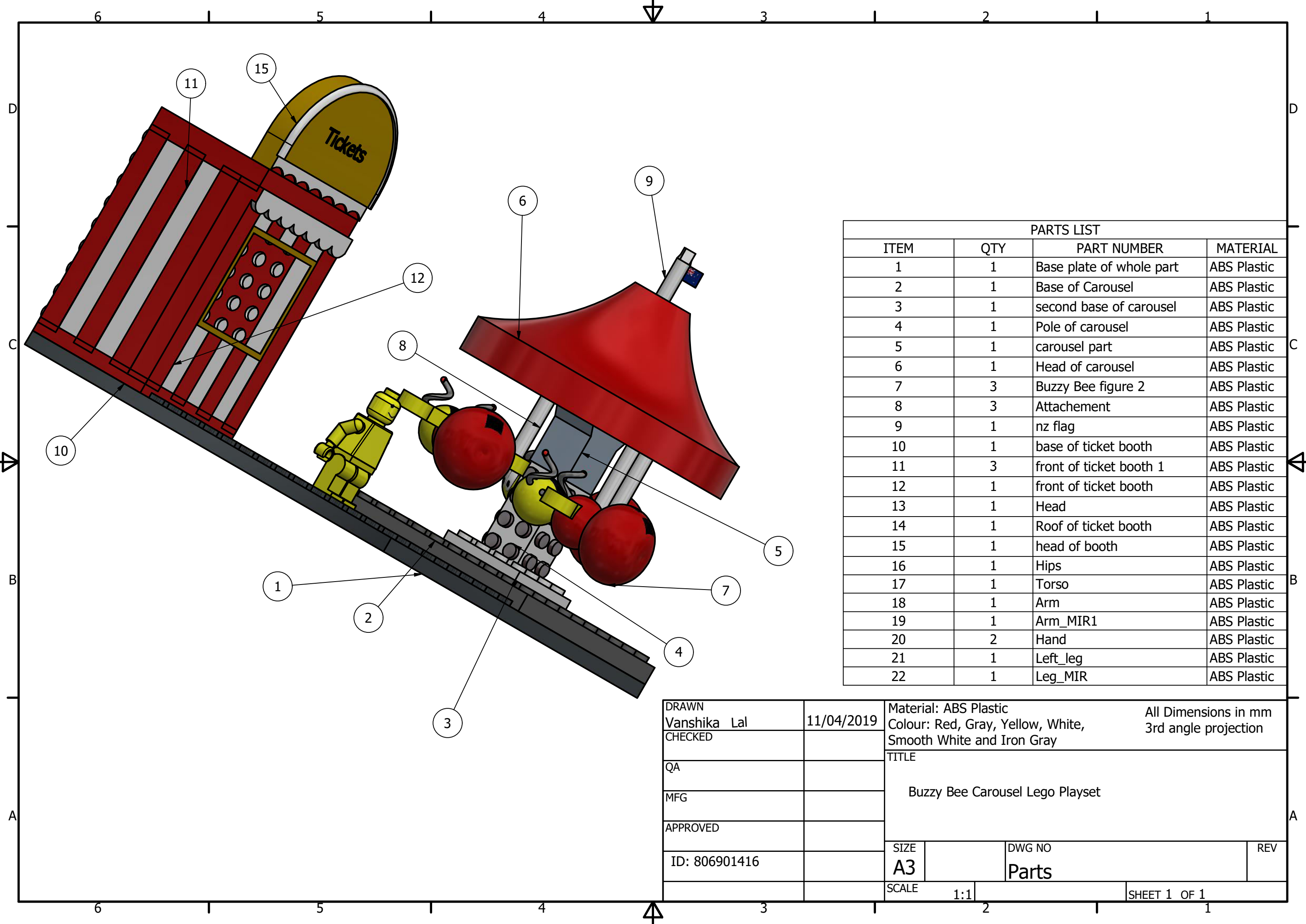
#### Note:

Assignments are not accessible after they have been handed in. No additions/ removals will be permitted.

Marks may be withheld for students who have not submitted their work to Turnitin.com if required in the course outline.

The University of Auckland views cheating in coursework as a serious academic offence. Accordingly it may require submitted work to be reviewed against electronic source material using computerised detection mechanisms.





| PARTS LIST |     |                          |             |
|------------|-----|--------------------------|-------------|
| ITEM       | QTY | PART NUMBER              | MATERIAL    |
| 1          | 1   | Base plate of whole part | ABS Plastic |
| 2          | 1   | Base of Carousel         | ABS Plastic |
| 3          | 1   | second base of carousel  | ABS Plastic |
| 4          | 1   | Pole of carousel         | ABS Plastic |
| 5          | 1   | carousel part            | ABS Plastic |
| 6          | 1   | Head of carousel         | ABS Plastic |
| 7          | 3   | Buzzy Bee figure 2       | ABS Plastic |
| 8          | 3   | Attachement              | ABS Plastic |
| 9          | 1   | nz flag                  | ABS Plastic |
| 10         | 1   | base of ticket booth     | ABS Plastic |
| 11         | 3   | front of ticket booth 1  | ABS Plastic |
| 12         | 1   | front of ticket booth    | ABS Plastic |
| 13         | 1   | Head                     | ABS Plastic |
| 14         | 1   | Roof of ticket booth     | ABS Plastic |
| 15         | 1   | head of booth            | ABS Plastic |
| 16         | 1   | Hips                     | ABS Plastic |
| 17         | 1   | Torso                    | ABS Plastic |
| 18         | 1   | Arm                      | ABS Plastic |
| 19         | 1   | Arm_MIR1                 | ABS Plastic |
| 20         | 2   | Hand                     | ABS Plastic |
| 21         | 1   | Left_leg                 | ABS Plastic |
| 22         | 1   | Leg_MIR                  | ABS Plastic |

|               |            |   |     |        |  |
|---------------|------------|---|-----|--------|--|
| DRAWN         |            | Material: ABS Plastic   |     |        | All Dimensions in mm<br>3rd angle projection |
| Vanshika Lal  | 11/04/2019 | Colour: Red, Gray, Yellow, White,<br>Smooth White and Iron Gray |     |        |  |
| CHECKED       |            | TITLE   |     |        |  |
| QA            |            | Buzzy Bee Carousel Lego Playset                                 |     |        |  |
| MFG           |            |   |     |        |  |
| APPROVED      |            | SIZE  |     | DWG NO | REV  |
| ID: 806901416 |            | A3  |     | Parts  |  |
|               |            | SCALE   | 1:1 |        | SHEET 1 OF 1                                 |

## Tickets

Buzzy Bee is a pop cultural item. Its bright colours and clicking sound call are familiar to many New Zealanders making it one of the most recognised items of Kiwiana. It is a representative of the honey bees who have brought several million dollars to our agricultural economy through their efforts to pollinate and provide export industries with bee products. In fact New Zealand has one of the healthiest diseases free honey bees in the world.

BUZZY BEE CAROUSEL LEGO  
PLAYSET

# DESIGN PROPOSAL

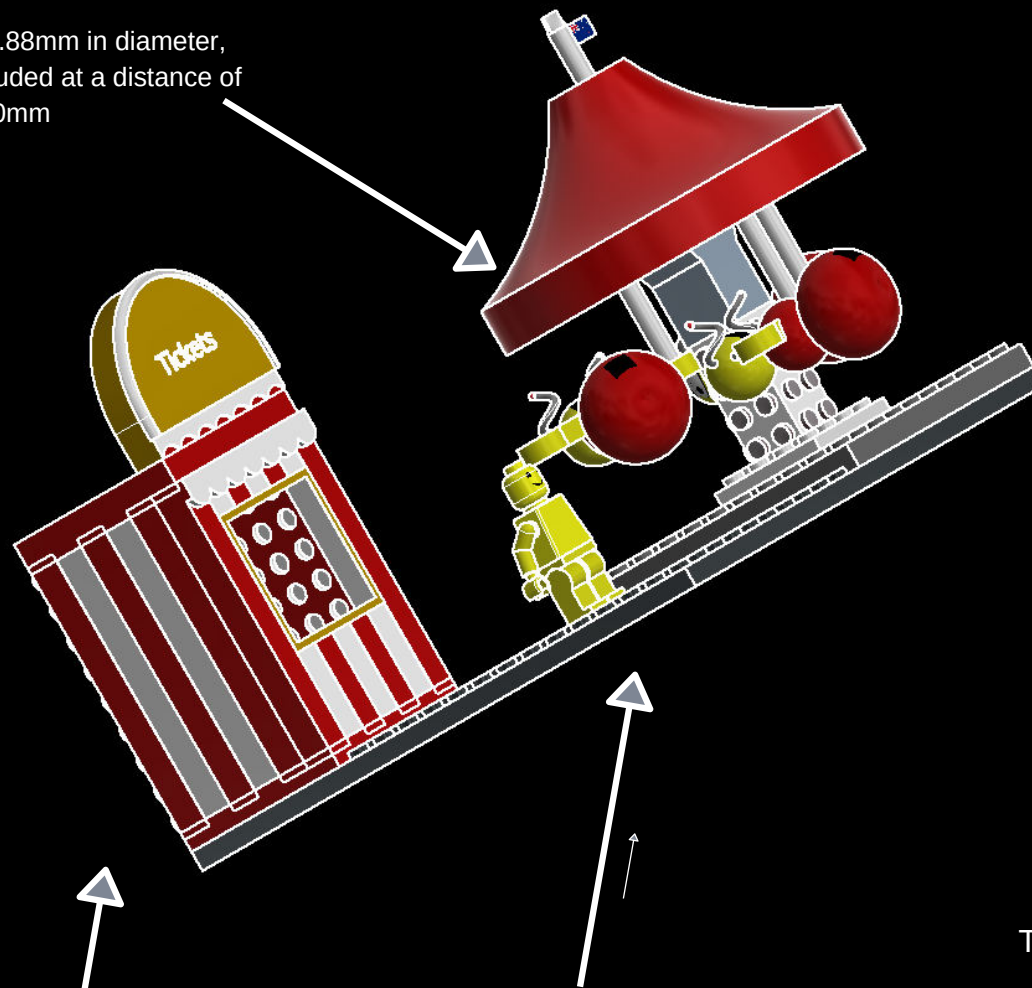
ENGEEN 115 TOYS LTD

New Zealand Industry and Culture

GREAT FOR CHILDREN TO PLAY  
WITH.

Made using ABS Plastic  
A PROPOSAL BY VANSHIKA LAL

The studs are all 4.88mm in diameter,  
8mm apart and extruded at a distance of  
1.80mm



The pole that connects the Buzzy Bee to  
the roof can be connected to any of the  
Buzzy Bee wings.

The figurine can also be attached inside  
the ticket booth or anywhere else on the  
base plate

The Buzzy Bee Carousel Lego playset will appeal  
to younger children, because children love  
carousels, and the Buzzy Bee itself is a very  
popular children's toy. Combining the two things  
together produces a product which is suited the  
new Zealand culture and industry and is also  
enjoyable for children to play with.

All the parts connect to each other  
through studs.

