

# He Aratohu Hanga NZAB

## Kupu Whakataki

- Āhua mahi: whakahaere āu wā whakatā

## Hauora me ngā tikanga haumaruru

- Ngā pūwera tūhoto
- Ngā nihowiri
- Ngā kani
- Ngā pūhiko

- Inea, tapahia
- Whakaritea te waea pūhiko
- Tūhoto ngā kōkiri alligator
- Whakaritea te taura CAT5
- Hangaia te karetao
- Hangaia ngā hurirere
- Hangaia te raumamao
- Tāpiritia ngā pūkaha ki te karetao:
  - Ko te karaka kei te taha matau
  - Ko te kahurangi kei te taha mauī
  - Ko te kākāriki kei runga, kei raro
- Wiri ngā kōpiro
- Tākai ngā pūkaha ki te whakapiri me te tēpa
- Wiri te ipu
- Wiri te paipa 4 inihi
- Tūhono ngā pūkaha ki te taura, ā, tūhoto
- Whakapiri wākihi ki ngā pūkaha
- Whakamātau ngā pūkaha

## Ngā Wāhi Tiroiro:

### *I mua i te tūhoto i te pūkaha:*

Kua tohua te pihi parahi o te pūkaha ki te ira whero

Kua tika te hono o te taura CAT5

Ko te ira whero ko te TOTOKA waea kara

Me tika te whakatakoto o te taura CAT5 ki te taupoki o te ipu

### *Tirohanga taura pūhiko:*

Ko te raina mā, pango rānei he tōraro (pango)

Kua tika te whakatakoto o ngā uhi kirihou

### *I mua i te whakauru i ngā hurirere:*

Kua tika te hanga

Kua whakakāia te ipu ki te wākihi

Kua ū katoa te hurirere

Kua whakamaenetia te kakau, kua horoia, ā kua whakapirihia ki te kāpia kaha

### *Tūhoto i te raumamao*

Whāia ngā tohutohu!

Kua kuhu te taura pūhiko mā te pouaka

### *I mua i te hono i te pūhiko ki te raumamao:*

WHAKAHONO!

Kāore he piriti i te tūhoto

Kāore ngā waea e pā ana ki a rātou anō

### *I mua i te wai:*

Tirohia te Monkey Putty

Tirohia te taumata wākihi

# NZAB Build Guide

## Introduction

- Format-self manage breaks

## Health and Safety

- solder irons
- Drills
- Saws
- Batteries

- Measure and cut
- Prepare Battery Wire
- Solder Alligator clips
- Prepare CAT5 cable
- Build bot
- Build propellers
- Build Controller
- Attach motors to bot
  - Orange is right
  - Blue is left
  - Green is up/down
- Drill elbows
- Wrap motors-sticker and tape
- Drill cannister
- Drill 4 inch pipe
- Attach motors to cable and solder
- Wax motors
- Test motors

## Check Points:

### Before soldering motor:

- Brass motor post is coloured at red dot
- Cat5 cable attached properly
- red dot is SOLID coloured wire
- Cat5 is through cannister LID the right way!

### Battery cable check

- White or black stripe on cable is NEGATIVE/Black plastic covers around the right way.

### Before attaching propellers

- built correctly
- wax filled container
- propeller tightened ALL the way down
- post sanded, cleaned with alcohol wipe, super glue

### Soldering Controller

- Follow instructions!
- Battery cable threaded through box!

### Before hooking battery up to controller

- FUSE!
- No bridges in solder
- No wires touching

### Before Water-

- check monkey putty
- check wax level