



Kaupapa
Miharo

Wero
Hiko

Ngohe 1.3: Ngā waka hererapa

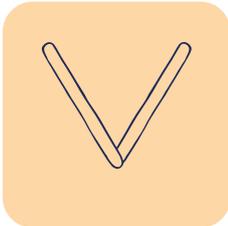
Kāore e taea te pūngao te waihanga, te whakakore rānei, engari ka taea te whakawhiti!

Hoahoatia tētahi hanganga o tētahi waka iti, ā, tūhuratia te āhua o
tā te pūngao whakawhiti i tētahi tūmomo pūngao ki pūngao kē.

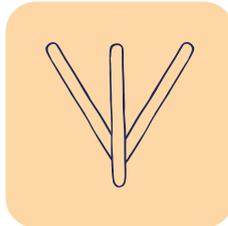
Me whai koe i ēnei mea:

- Kia 3 ngā rākau rarepapa
- Kia 1 te hererapa
- Kia 2 ngā pūrou rākau
- Kia 1 te ngongo kirihou
- Kia 4 ngā taipoki pātara,
ētahi mea rānei e rite ana hei wīra
- He hāpiapia, he kutikuti,
he kāpia wera
- He rūri, he taura ine rānei

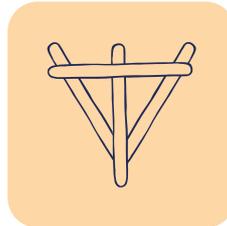
Hei mahi 1: Hangaia te anga o te waka



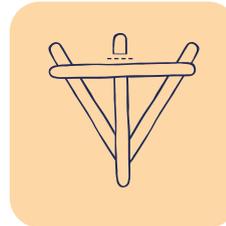
- Glue together two popsicle sticks in a "V" shape



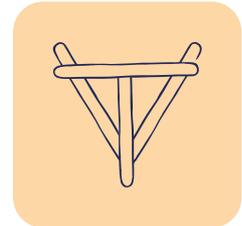
- Glue a third popsicle stick down the middle of the "V", so it sticks out 2cm from the bottom of the "V"



- Glue a final popsicle stick horizontally near the top of the "V" so it crosses all three sticks

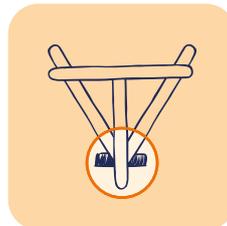


- Cut off the end of the middle stick

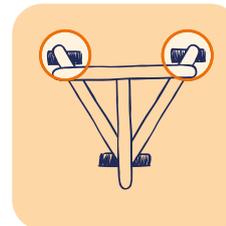


- Let the glue set before continuing

Hei mahi 2: Tāpiria ngā paewīra

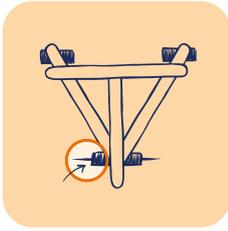


- Cut a 5cm piece of straw and glue it to the bottom of the "V", where the two sides join

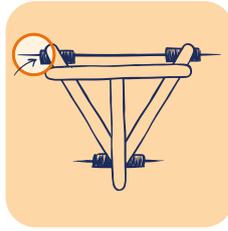


- Cut two 2.5 cm pieces of straw, and attach one to each side at the top of the "V"

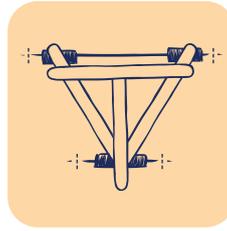
Hei mahi 3: Tāpiria ngā wīra



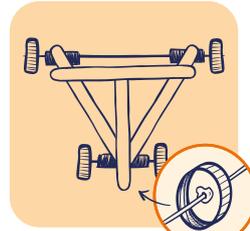
- Thread a skewer through the straw at the bottom of the "V"



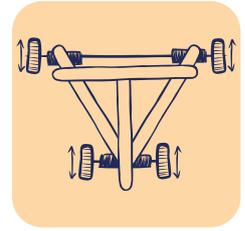
- Thread another skewer through both straws at the top of the "V"



- Cut the skewers to remove extra length, leaving enough to attach your wheels

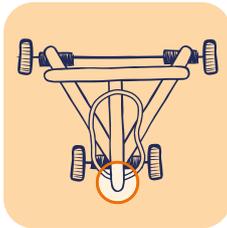


- Attach your wheels to each side of the skewers by poking the skewer through the middle and/or hot gluing them to the skewer

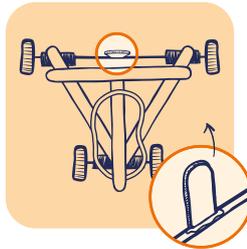


- Test that the wheels can roll before continuing

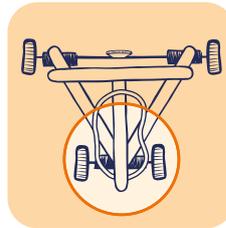
Hei mahi 4: Hangaia te pūkaha hererapa



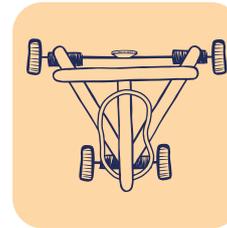
- Using hot glue, attach one end of the rubber band to the bottom of the "V", around the popsicle stick that's sticking out



- Cut a 1.5–2cm piece of popsicle stick and attach it to the middle of the skewer at the top of the "V"

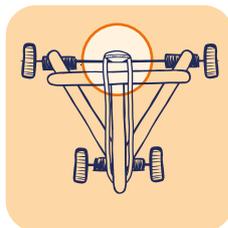


- The bottom of the "V" is now the front of your car

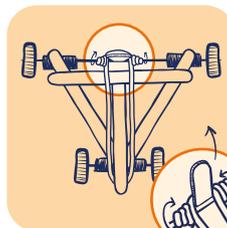


- Let the glue set before continuing

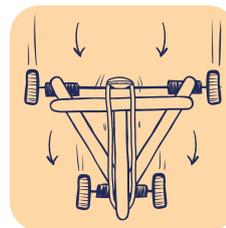
Hei mahi 5: Kua rite!



- Stretch the rubber band to the back of the car and place it around the small piece of popsicle stick



- Wind the rubber band around the axle by pushing the popsicle stick piece backwards



- Kia rite rā koe, hoatu te waka ki tētahi papa papatahi, ā, tukua te waka kia haere!

Inea te tawhiti o te haere o ia waka ki te rūri

Ingoa o te rōpū	Te tawhiti o te haere (mitarau)	Ngā kitenga

He aha ngā whakawhitinga pūngao e puta mai ana?

Whakakāia ngā āputa ki ngā tūmomo pūngao.

Pūngao oro

Pūngao neke

Pūngao kūtorotoro

Pūngao pōkākā

Te hererapa kua torohia:



Te waka i tukua:

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He aha ngā āhuatanga i tawhiti ake ai, i tere ake ai rānei te haere o tō waka?