

He Tukinati — Nut Cracker continued

8. Can you describe the differences between the two nut crackers and how they work?



He aha ngā

rerekētanga o te tukinati maitai, me te tukinati rākau, ā, pēhea hoki te whakamahi i ia tukinati?

% responses
GEd MI

different material (*metal vs. wood*) 24 3

different visual design 15 3

operating principle (*screw vs. lever*) 80 76

9. Do you think one of these nut crackers is better than the other? Which one?

Ki ōu whakaaro, he pai kē atu tētahi ki tētahi? Ko tēhea te mea pai?

Choice: wooden 57 55

metal 32 34

none 11 11

Why? He aha ai?

Explanation: strong justification 3 3

moderate justification 48 33

limited justification 40 45

no justification 9 19

10. Why do you think we have different types of nut crackers?

Ki ōu whakaaro he aha te take i whiwhi ai tātou i ētahi momo tukinati rerekē?

different consumer preferences, resources 70 44

inventors come up with new ideas 15 0

companies, individuals

competing for market share 1 0

11. What do you think people in the future might use to crack open nuts?

Ā ngā rā e heke mai ana, he aha rā te mea ka whakamahia e te tangata hei huaki nati? [not marked]

Commentary:

Māori students in general education (GE) settings scored statistically significantly higher than did Māori students in Māori immersion (MI) settings. The most substantial differences occurred in the explanations.

He Kete Pine — Peg Basket

Approach: Independent

Focus: Explaining design features of a plastic peg basket.

Resources: Plan, peg basket kitset, pegs.

Questions/instructions:

Make up the peg basket so that it looks like the plan. Ask the teacher if you need help. Think about why the basket has been designed like this.

Mahia he kete pine kia rite ki te hoahoa. Ki te hiahia āwhina koe me pātai ki te kaiako. Whakaarohia te take i hangaia ai te kete kia pēnei.

Write answers to the questions.

Tuhia ngā whakautu ki ngā pātai.

% responses
GEd MI

Why has plastic mesh with holes been used?

Nā te aha i whakamahia ai te kirihou mata pūareare [small holes/mesh]?

mesh lets rain/water air through 60 50

plastic doesn't rust 3 5

plastic is flexible 5 7

Why do the top hooks go opposite ways?

Nā te aha i tohu aronga kē ai [opposite ways] ngā huka?

less likely that basket will fall off line 53 59

Why does the basket have legs?

He aha i whai waewae ai te kete?

can sit well on ground or table 93 84

Why is it brightly coloured?

He aha i pīataata [brightly coloured] ai te tae?

attractive, highly visible 80 84

Why isn't the basket made up before it is sold in the shop?

He aha te take kāore i hangaia te kete, i mua i te hokonga e te toa?

package takes less space/packaging 48 39

reduce labour/manufacturing costs 3 9

reduce shipping costs 3 0

less damage in transit 20 14

Why is the basket rounded?

He aha i hanga porowhita ai te kete?

easier to assemble 3 18

easier to use 16 20

looks attractive 3 5

fewer corners to damage clothes 1 0

Total score: more than 6 3 0

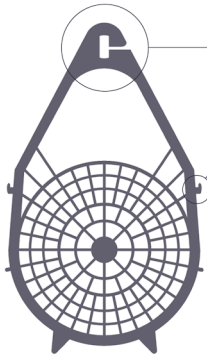
5-6 37 39

3-4 44 43

0-2 16 18

He Kete Pine — Peg Basket

Te Pepa Tohutohu mō te Kete Pine

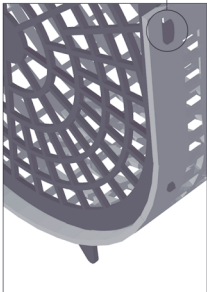


(He hūka mo runga) hei hononga
ki te raina kakahu

(Hūka A) hei hononga ki te raumata kirihou

Ngā Taputapu

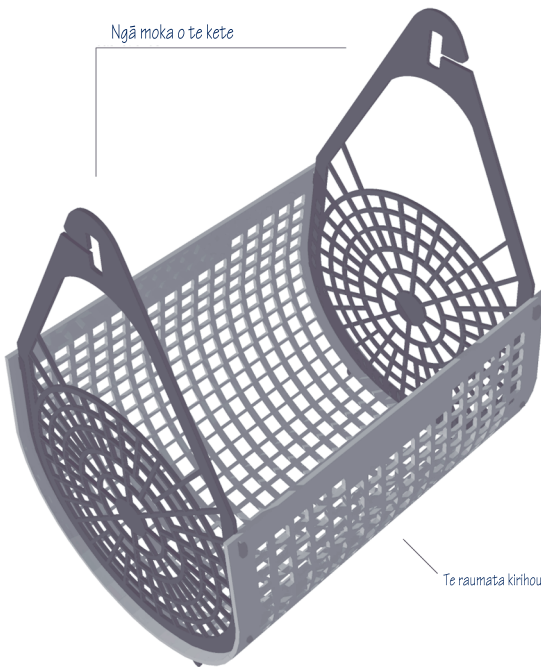
e rua ngā moka mo te kete
1 raumata kirihou
kotahi te pāke pine



Ngā Tohutohu

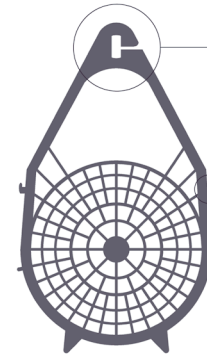
- (1) Honoa te raumata kirihou ki tētahi o ngā moka o te kete, me timata i te hūka A (tirohia te hoahoa).
- (2) Takala te raumata kirihou hurinoa i te moka.
- (3) Makala ngā wae wae o taua moka o te kete kia puta atu i ngā kāniwha [slots] o te raumata.
- (4) Me whai anō i ērā tohutohu ki te hono atu i tērā atu moka o te kete.
- (5) Me tika tonu kia anga aronga kē ngā hūka o runga.

Ngā moka o te kete



Te kete pine i hangata

Peg Basket Instruction Sheet

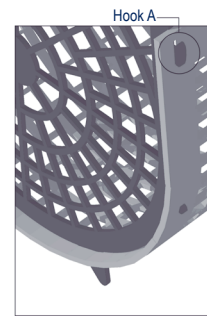


(Top hook) for attaching to washing line.

(Hook A) for attaching plastic mesh.

Contents:

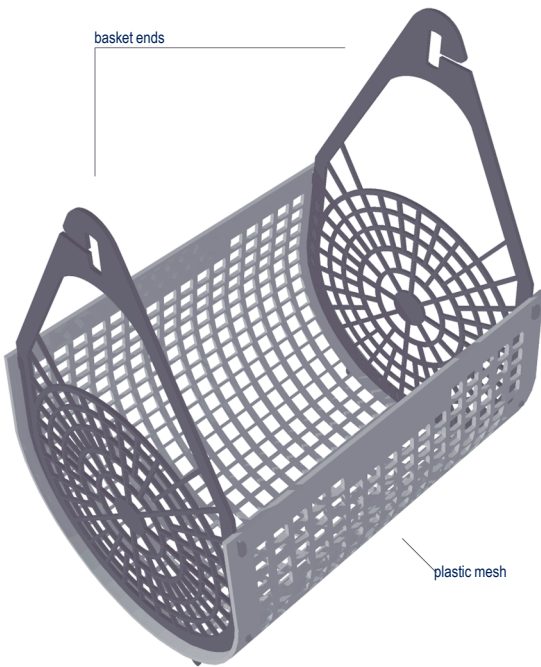
2 Basket Ends
1 Plastic Mesh
1 Bag of Pegs



Instructions

- (1) Attach the plastic mesh to one of the basket ends starting at Hook A (see diagram).
- (2) Wrap the mesh around the end.
- (3) Put the feet of the basket end through their slots in the mesh.
- (4) Follow the same instructions to attach the other basket end.
- (5) Make sure the top hooks face opposite directions.

basket ends



Constructed Peg Basket

Commentary:

The results achieved by Māori students in general education (GEd) and Māori immersion (MI) settings were not statistically significantly different.