

Approach: One to one

Focus: Classification

Kupu: poi hau = balloon nēra = nail
moni uka = coinResources: 3 bags, nail, balloon, coin [bag 1: rubber band, plasticine, foam cube;
bag 2: metal spoon, magnet, metal paper ring; bag 3: stone, wooden cube, plastic counter]

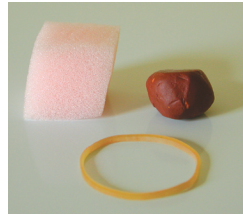
Questions / instructions:

Ko tēnei mahi, he tiroiro i ētahi rōpū taonga, me te āta whakaaro he aha i pērā ai te whakarōpū o aua taonga. Kātahi ka tonoa koe ki te hoatu i ētahi taonga anō ki ngā rōpū. E pai ana te whāwhā i ngā taonga.

In this activity you will be looking at some groups of things and deciding why they have been grouped together. Then you will be adding some more things to the groups. You can touch the things.

Whakatakotoria ngā taonga o te pēke tuatahi ki runga i te pēke.

Place objects from bag 1 on top of the bag.



1. He aha tētahi āhuatanga ōrite o ēnei taonga katoa?

What is something the same about the things in this group?

soft/flexible

% responses

65

Whakatakotoria ngā taonga o te pēke tuarua ki runga i te pēke.

Place objects from bag 2 on top of the bag.



2. He aha tētahi āhuatanga ōrite o ēnei taonga katoa?

What is something the same about the things in this group?

hard
metal
magnetic metal

15

57

17

Whakatakotoria ngā taonga o te pēke tuatoru ki runga i te pēke.

Place objects from bag 3 on top of the bag.



3. He aha tētahi āhuatanga ōrite o ēnei taonga katoa?

What is something the same about the things in this group?

hard
not metal
not magnetic metal

6

38

17

Ināianei, me hoatu tētahi o ēnei taonga ki ia rōpū. Kōwhiria te taonga e tino rite ana ki tēnā rōpū, ki tēnā rōpū.
Hoatu te nēra, te poi hau me te moni uka.

Now I would like you to put one of these things into each of the groups. Choose a thing that fits best into each group. **Hand out nail, balloon and coin.**



4. Ko tēhea te rōpū e tika ana mō te poi hau?
Tukuna he wā whakaaroaro mā te ākongā.
Where would you put the balloon? **Allow time.**

bag 1

% responses

96

5. He aha koe i hoatu ai i te poi hau ki tēnā rōpū?

Why did you put it there?

soft/flexible

64

6. Ko tēhea te rōpū e tika ana mō te nēra?
Tukuna he wā whakaaroaro mā te ākongā.Where would you put the nail?
Allow time.

bag 2

81

7. He aha koe i hoatu ai i te nēra ki tēnā rōpū?

Why did you put it there?

hard

6

metal

38

magnetic metal

17

8. Ko tēhea te rōpū e tika ana mō te moni uka?
Tukuna he wā whakaaroaro mā te ākongā.Where would you put the coin? **Allow time.**

bag 3

68

9. He aha koe i hoatu ai i te moni uka ki tēnā rōpū?

Why did you put it there?

hard

36

not magnetic

9

E hiahia ana koe ki te hoatu i ngā taonga ki tētahi rōpū kē atu?

Tukuna he wā whakaaroaro mā te ākongā.Is there anything you would like to change?
Allow time.

10. He aha koe i huri ai i ōu whakaaro?

Why did you change that?

not marked

[some students had not included "magnetic" as a factor for bag 2 and needed to change that]

Total score:

11–16

2

9–10

18

7–8

26

5–6

28

3–4

17

0–2

9

Commentary:

Most students came up with classification schemes that were at least partially appropriate but few distinguished magnetic metals from other metals.