## Te Whakamakere Moni - Dropping Coins

Approach: Station
Focus: Students demonstrate their intuition or prior learning about the effects of gravity on objects of differing mass, then carry out a practical investigation and interpret the outcome.
Resources: 50c coin, 10c coin.

## Questions/instructions:

In this activity you will be finding out about how things fall.




1. THINK FIRST - do not try it yet.

You have a 10 cent coin and a 50 cent coin.
Which picture do you think shows a way to hold the coins before you drop them so they will hit the floor at the same time?

Circle the picture which you think shows the best way.

I tēnei mahi ka kitea e koe pēhea ai te makere o ētahi mea.

ĀTA WHAKAARO -
kaua e whakamātauria ināianei.
He tekau hēneti me te rima tekau hēneti tāu.

Ki ōu whakaaro ko tēhea te pikitia e whakaatu ana i te āhua pupuri i ngā moni i mua i te makeretanga, kia kotahi ai te tau a ngā moni ki te papa?
Porohitatia te pikitia e tika ana ki a koe.
same level
5443

## 2. NOW TRY IT.

Hold your arms in each of the different ways and drop the coins. Write down which coin hit the floor first.
KEI A KOE INĀIANEI
Torona ō ringa kia rerekē pērā i ērā o ia pikitia, $\bar{a}$, ka whakamakere ai i ngā moni. Tuhia te moni i tau tuatahi ai ki te papa.


10c first
$83 \quad 57$

$\checkmark$ both together


50c first
$83 \quad 72$


## Commentary:

MI (Māori Immersion) students scored statistically significantly lower than GEd (General Education) students.

