

Mathematical investigation (1)

Investigating is a great way to learn to think mathematically, apply logic, spot patterns and improve our perseverance.

Stepping stones

How it works...

- Katya the kangaroo jumps from stone to stone, doing maths as she goes. She ends up on a stone with the same number as the stone she started on!



Challenge 1

- Cut out the stepping stones (*see resource*). Find other stepping stones so that Katya starts and finishes on 10. Use **three** stepping stones between 10 and 10 each time, writing in **blue** for adding and **green** for subtracting.
- Find at least four different ways!
- Did you spot a 'trick' for doing this...?

Challenge 2

- This time use **four** or even **five** stepping stones so that Katya starts and finishes on 10. Keep on writing in **blue** for adding and **green** for subtracting. Can you find at least four different ways?!

Do you notice anything about the **blue** numbers and the **green** numbers?

TIP! Add the **blue** numbers. Add the **green** numbers...

Does this help you to make a new path for Katya?

Challenge 3

- Choose your own starting number. The finishing number must be the same.
- Create your own stepping stone path for Katya.

