

# NUMBERS BEFORE AND AFTER.

## INVESTIGATIONS OVERVIEW PAGE

THIS PAGE IS A SUMMARY OF THE INVESTIGATIONS THAT STUDENTS MAY ENGAGE IN TO DEEPEN THEIR RELATIONAL UNDERSTANDING. INVESTIGATIONS WITH INSTRUCTIONS TO STUDENTS FOLLOW ON SUBSEQUENT PAGES.

- In pairs, each child selects a range of numeral cards according to their current level of understanding. They place the numbers in order. They identify the number before and after numbers (EXTENSION - identify the numbers 2 before and after, 3 before and after). They take turns to turn over one of their friend's numbers (EXTENSION – turn over 2 or 3 consecutive numbers). They identify which number has been turned over by naming the number before and after the number (EXTENSION – turn over 2 or 3 consecutive numbers, the child identifies the middle number using the numbers 2 before and after). NB: Allowing children to select the range of numbers that they are comfortable with, allows them to independently investigate number before and after. In this way, regardless of their current level of understanding, EVERY child can investigate independently. As the child demonstrates understanding of their current range of numbers, they 'level up' by being given the next number. [Reflection: How can we tell the number before and the number after?](#)
- In pairs, each child has a range of numeral cards according to their current level of understanding. They select one of the numbers. They name the number before and after their number. They record the numbers. For example, they select number 4. They identify that 3 is the number before and 5 is the number after. They record 3 4 5. (EXTENSION - identify the numbers 2 before and after, 3 before and after). [Reflection: How can we tell the number before and the number after?](#)
- In pairs, each child has a range of numeral cards according to their current level of understanding. They also have a page divided into 3 columns. They place a numeral card in the centre column. They record the number before and after their number. (EXTENSION – the page is divided into 5 or 7 columns, children identify the numbers 2 before and after, 3 before and after). [Reflection: How can we tell the number before and the number after?](#)
- In pairs, children play 'guess my number'. One child says, 'my number comes after 5', or 'my number comes before 4', or '3 is the number before my number', or '6 is the number after my number'. Their friend identifies the number. (EXTENSION - identify the number from a number 2 before and after, 3 before and after). [Reflection: How can we tell the number before and the number after?](#)
- In groups, children each have a numeral card. The music plays and the children move about in a defined area. When the music stops, they arrange themselves in order. They describe their number as 'I am number 5. I come after 4. I come before 6', and 'I am number 5. Number 4 comes before me. Number 6 comes after me'. (EXTENSION - describe the numbers 2 before and after, 3 before and after). [Reflection: How can we tell the number before and the number after?](#)

Numerals 0 – 10 (print, cut out and distribute to each child) ([back](#))

0	1	2	3
4	5	6	7
8	9	10	

## Numbers Before and After

Select the number cards that are neither too easy nor too challenging, that you are ready to investigate.

Place them in order from lowest to highest.

Read the numbers forwards.

Read the numbers backwards.

Have a friend turn one number face down.

Identify the number by the number before and the number after.

Explain your understanding, saying, '4 comes after 3' and '4 comes before 5'.

Reflection: How can we tell the number before and the number after?

## Numbers Before and After

Record the number before and after

	4	
	6	
	3	
	8	
	Select your own number!	
	Select your own number!	

Reflection: How can we tell the number before and the number after?

## Numbers Before and After

Record the number before and after, and the number 2 before and after

		4		
		6		
		3		
		8		
		Select your own number!		
		Select your own number!		

Reflection: How can we tell the number before and the number after?

## Numbers Before and After

Sit with a friend.

Play 'guess my number'.

One of you says,

- 'my number comes after 5', or
- 'my number comes before 4', or
- '3 is the number before my number', or
- '6 is the number after my number'.

Your friend identifies the number.

(EXTENSION - identify the number from a number 2 before and after, 3 before and after).

**Reflection:** How can we tell the number before and the number after?