



"Learning is a journey, to be taken together, one step at a time"



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What is Fluency in Mathematics?

Fluency is when children are able to understand why they are doing a certain procedure and when it is appropriate to use different methods to solve a problem (NRICH, 2020)

Russell (2000) suggests that fluency consists of three elements: efficiency, accuracy and flexibility.

Be Efficient: Choose the most efficient strategy

Be Accurate: Know and understand number facts

Be Flexible: Understand that there are many ways to solve a problem

How Can I Help at Home?

Reading Stories

When reading a story with your child, look for opportunities to practise and talk about Maths.

Number Facts

Practise inverse operations. For example,
'If I know that $10-8 = 2$, what else do I know?'
'If $10+3 = 13$, what is $13-3$?'

Watching and Talking Sport

You can encourage maths at home by asking children and wondering aloud whilst watching sport.

'How long is left of the game?'

'How many more goals do they need to score to make 15?'

'I wonder what the score will be if we score 3 tries and 2 conversions?'

Times Tables

Practise times tables with your children but change the way you ask. For example,

'What is 6×4 ?'

'What is 4 lots of 6?'

'If I had 6 boxes of 4 eggs, how many would I have altogether?'

Concrete Resources

Use a variety of household items to do Maths. You could use spoons to help with addition, coins for arrays and cards to do adding, subtracting, multiplication and division. If you are baking or cooking, ask your child to measure out the ingredients or convert between kg and g, ml and l.

Website for further help: <https://nzmaths.co.nz/mathis-our-house>