

Working together is the most important difference that we can make to your child's learning

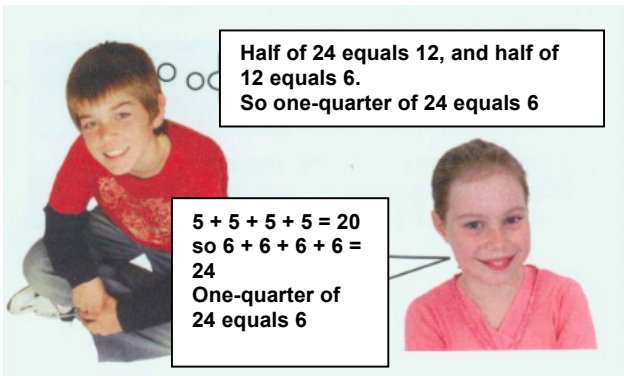
Maths Programmes at MRI

- ❖ Our maths programme is focused on developing children's understanding of numbers, and their ability to use numbers to solve problems.

e.g

Huia's whanau have planted kumara and Maori potatoes. Each garden is set out in rows with plants the same distance apart. The kumara garden has 19 rows of five plants. How many kumara plants are in the garden?

- ❖ Children may solve number problems by counting, adding, subtracting, multiplying, dividing, or combinations of these.



- ❖ Children are encouraged to learn a range of different ways to solve problems and to choose the most appropriate one for each problem



As part of our maths programme your child will be learning to:

- ❖ Enjoy working with numbers
- ❖ Make sense of numbers - how big they are, how they relate to other numbers, and how they behave
- ❖ Solve mathematical problems - whether real life or imaginary
- ❖ Calculate in their heads whenever possible, rather than using a calculator or pen and paper
- ❖ Show that they understand maths, using equipment, diagrams and pictures
- ❖ Explain and record the methods they use to work out problems
- ❖ Accept challenges and work at levels that stretch them
- ❖ Work with others and by themselves
- ❖ Discuss how they tackle mathematical problems - with other students, their teacher *and* you!
- ❖ Use what they know about numbers when they work with measurement, statistics and geometry

How you can help:

- ❖ **Be supportive**
 - Not everyone loves maths but it is important in their everyday life.
 - Encourage them to keep trying
 - Praise their efforts
- ❖ **Listen to them**
 - Encourage children to think about different ways of solving problems
 - Encourage them to explain their thinking "How did you work that out?"
 - Sometimes you might need to use materials, such as counters, or pen and paper for them to demonstrate what they mean.
 - They may not answer it the same way that you would, but that does not mean they are wrong.
 - Expect your child to use different strategies to solve problems.
 - Be prepared to try different strategies yourself
- ❖ **Talk to your child about the stage that they are working on at school**
 - Get them to show you at home what they are learning
 - Talk to them about what they need to work on to get to the next stage
 - Try to use it in everyday life e.g. If they are learning about fractions, ask them about fractions "What fraction of people in our family are children?" "What fraction of the milk is left?"
- ❖ **Give them opportunities to do maths**
 - Maths is everywhere! Regardless of the age or ability of your child there are opportunities for them to practice their maths.
 - This will not only give them practice, but also show them that maths relates to the 'real world'

It is important that your child knows:

❖ Their Basic Facts for

$+$, $-$, \times , \div

e.g $5 + 3 = 8$

$3 + 5 = 8$

$8 - 5 = 3$

$8 - 3 = 5$

$7 \times 9 = 63$

$9 \times 7 = 63$

$63 \div 9 = 7$

$63 \div 7 = 9$



Some great ideas for maths at home are:

- ❖ Money – calculating cost and change. Interest rates...
- ❖ Measuring things - lengths, areas, volumes, cooking ingredients...
- ❖ Travelling - calculating distances and speeds
- ❖ Games - Monopoly, Bingo, board games, cards...
- ❖ Time/timetables – buses, trains
- ❖ Mathletics – educational computer games/ activities

The website below has lots of games and activities that you can do with your child that match the Numeracy Stage that they are working at:

www.nzmaths.co.nz/families

Stage	The type of Problems they need to solve	What they need to practice
5	Can solve simple problems by splitting up and adding together the numbers in their head.	<ul style="list-style-type: none"> • Basic Facts • Solving subtraction problems • Using more than 1 strategy to solve a problem • Talking about how they worked out a problem
6	Use a range of different methods to solve more challenging problems in their head	<ul style="list-style-type: none"> • Basic Facts • Solving division problems • Using more than 1 strategy to solve a problem • Talking about how they worked out a problem
7	Can use a range of different methods to multiplication and division problems in their heads	<ul style="list-style-type: none"> • Solving division and fraction problems • Using more than 1 strategy to solve a problem • Talking about how they worked out a problem
8	Can solve complicated problems involving fractions, decimals and percentages using a combination of methods of methods e.g. 12.5% of \$72 as $12.5\% = 1/8$, 1/8 of \$72 is \$9	<ul style="list-style-type: none"> • Solving problems with decimals, fractions, rates and ratios mentally and on paper • Using more than 1 effective strategy to solve a problem • Talking about how they worked out a problem



Mt Roskill Intermediate School



Maths and your child

How you can help

Home – Child – School Working together