

How you can help your child...

Challenge your mindset - is it a growth one or a fixed one?

- Watch these two TED talks to help your understanding of the research and thinking around maths today. This can be applied across all learning.

Carol Dweck on Growth Mindset - The Power to Believe that You Can Improve

https://www.ted.com/talks/carol_dweck_the_power_of_believing_that_you_can_improve?language=en

Jo Boaler on 'How you can be good at math, and other surprising facts about learning'

<https://www.youtube.com/watch?v=3icoSeGqQtY>

NZmaths

- Check out the world renown NZMaths site - it is considered to be one of the best in the world. Notice the links for Family/ Whānau
<https://nzmaths.co.nz/students-and-wh-nau>
<https://nzmaths.co.nz/faqs-families> Rich Mathematical Problems
- Have fun as a family using rich maths problems to explore
<http://nrich.maths.org/frontpage>

Explore maths in the world around us, with your child.

- Consider the metric measurement that we use on a daily basis - create opportunities for your child to measure accurately e.g when you are cooking and baking. What does a litre look like? What say we change the shape of the container - what does it look like then?
- Have fun with money - how many different ways can we create \$5 or \$20. If they have a money box - can they count their money accurately. What different ways can you do it? Can they run a income and expenditure chart for their pocket money?
- Make patterns when counting in groups (skip counting) backwards and forwards, starting with different numbers (e.e. 13, 23, 33, 43...43, 33, 23, 13).
- Find and connect numbers around your home and neighbourhood; eg. 7 on a letterbox, 17 on another and 27 on another. Count how many tens and ones are in letterbox numbers.
- Do water play using different shaped containers and measuring cups.
- Bake - talk to your child about the recipe / ingredients and how many pieces you need to feed everyone.
- Telling the time-use an analogue clock as well as a digital clock and help your child make connections between the two types of clock.
- Play monopoly with your child - make them the banker so they have to deal out money, give change.

Have fun with patterns and numbers

- <http://www.learning4kids.net/2012/10/28/counting-subitising/> check out this link and have fun with subitising
- Think of lego and building blocks as a way to explore numbers and patterns
<http://www.learning4kids.net/2015/08/16/build-a-city-counting-and-subitising-game/>
- Make patterns when counting forwards and backwards (eg. "5, 10, 15, 20 then 20, 15, 10 and 5)

Help your child to learn basic knowledge like the Basic facts and Times tables

- Create a set of timetable cards and play games like Snap and Memory as a family. Working in teams can help the younger ones to have fun too.
- Use a pack of cards to play "Salute" - in a group of three, 2 people put a card on their head. The 3rd person multiplies/adds the numbers together. The winner is the person who can figure out

which number is on their head the quickest.

- Use dice to add two numbers together, then reverse numbers for subtraction.
- Play a game of dominoes to learn how to double numbers to 12.
- Encourage the children to go onto Mathletics regularly.
- Visit website www.topmarks.co.uk/maths and choose Hit the Button - Basic facts activity to test speed of recall of add/sub/mult/div facts.

Some great questions to ask...

- What do you know?
- Can we draw something to help us?
- What things could we use to help us?
- How did you work that out?
- Can you explain how you got that answer?
- Can you create another problem similar to that?
- Can you explain what you did then?

Encourage your children to use **The Talk Moves**. These are:-

- The example we just saw was...
- I get it because..
- I'm confused because..
- One thing that clicked with me is...
- One thing I'm having trouble with is....
- Can you explain..?
- This reminds me of...
- I can add to what you said with...

As we mentioned last night, the Banks' Success Criteria for the students will be uploaded onto the website at the beginning of next term so you can readily access what your child/ren are learning.