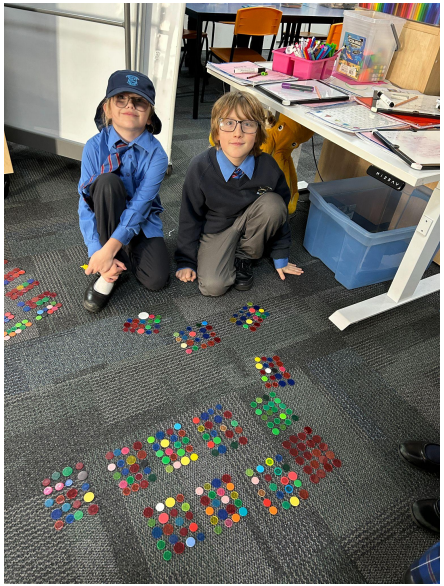
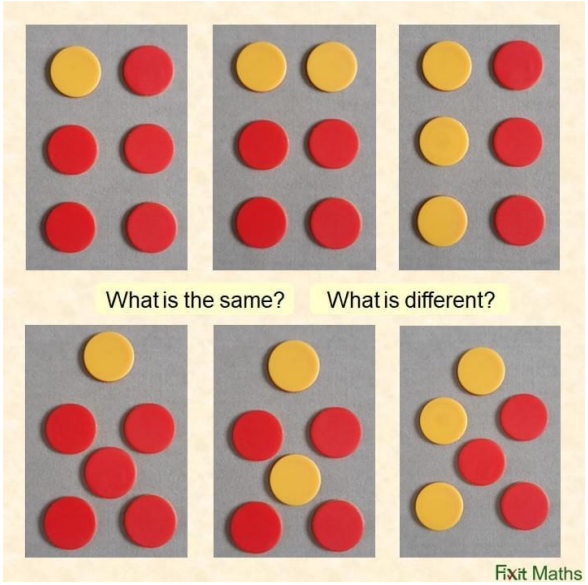
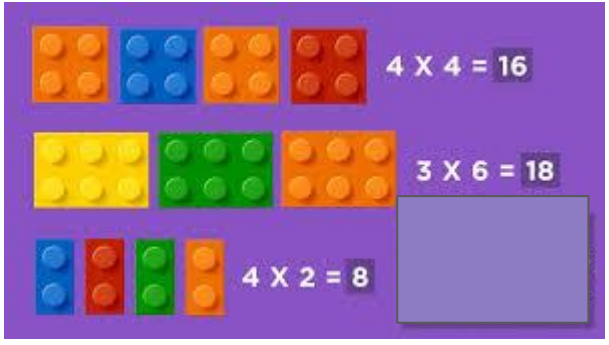
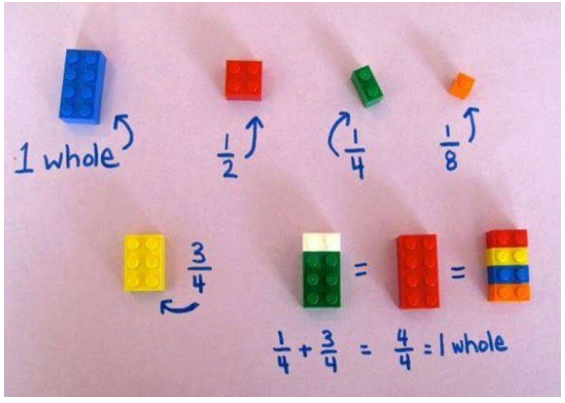
Maths Cafe No. 1
St Joseph's Bulli
28/8/2024





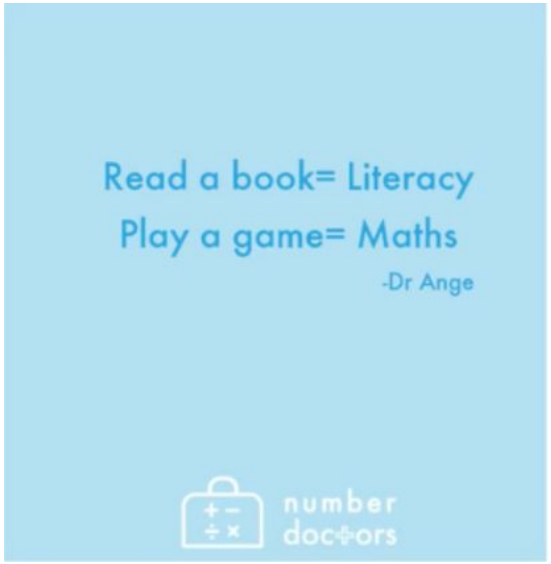
Maths is Everywhere!





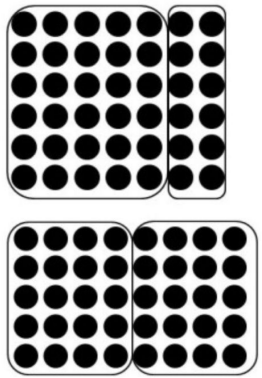
Parental engagement has a positive impact on average of 4 months' additional progress.

Education Review Office in New Zealand



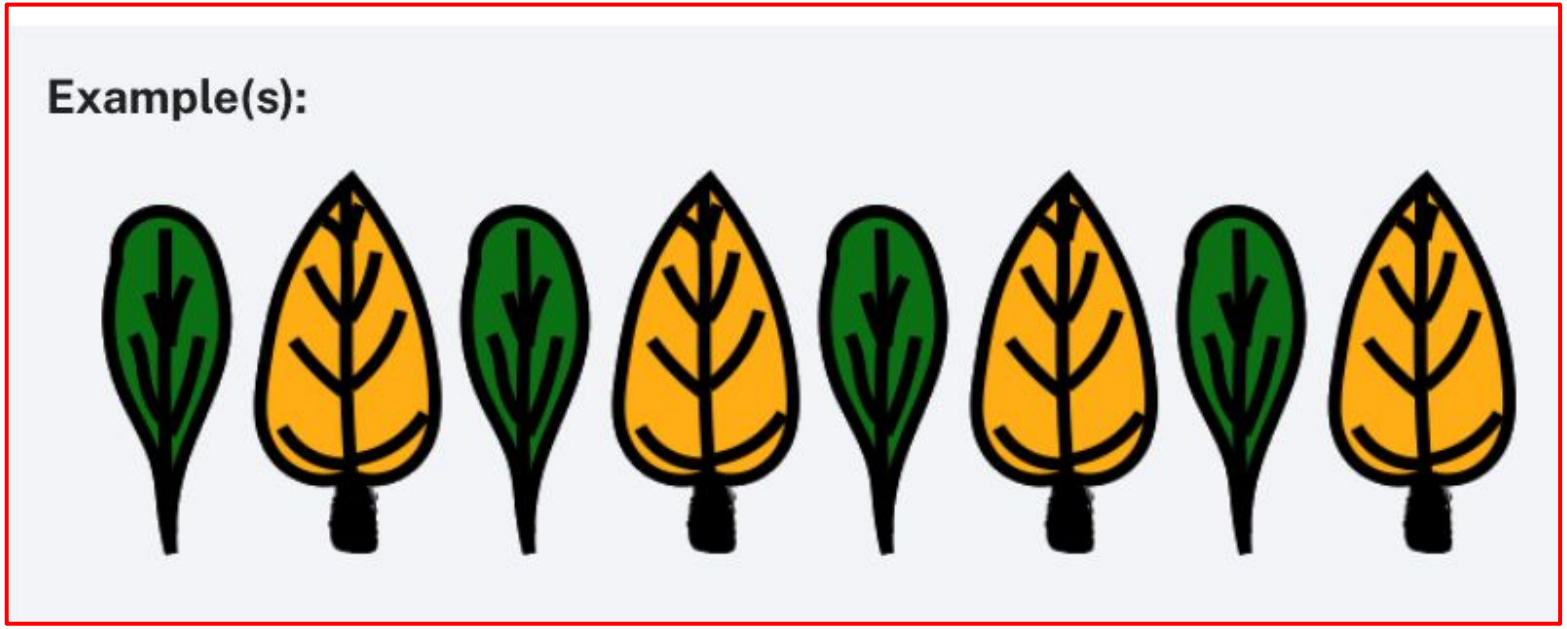
How Is Maths Being Taught?

- Maths teaching has changed!
- New Syllabus- Working Mathematically: communicating problem solving and reasoning, solid understanding and fluency in Maths
- Flexibility with numbers
- Estimation and solving a problem multiple ways rather than multiple problems one way
- Making connections between concepts and the real world
- Concrete, pictorial, abstract. K-6 and beyond if necessary.
- Deep understanding VS speed
- Mental computation before the algorithm



Think back to when you learned to multiply? What do you recall?

- Current practise



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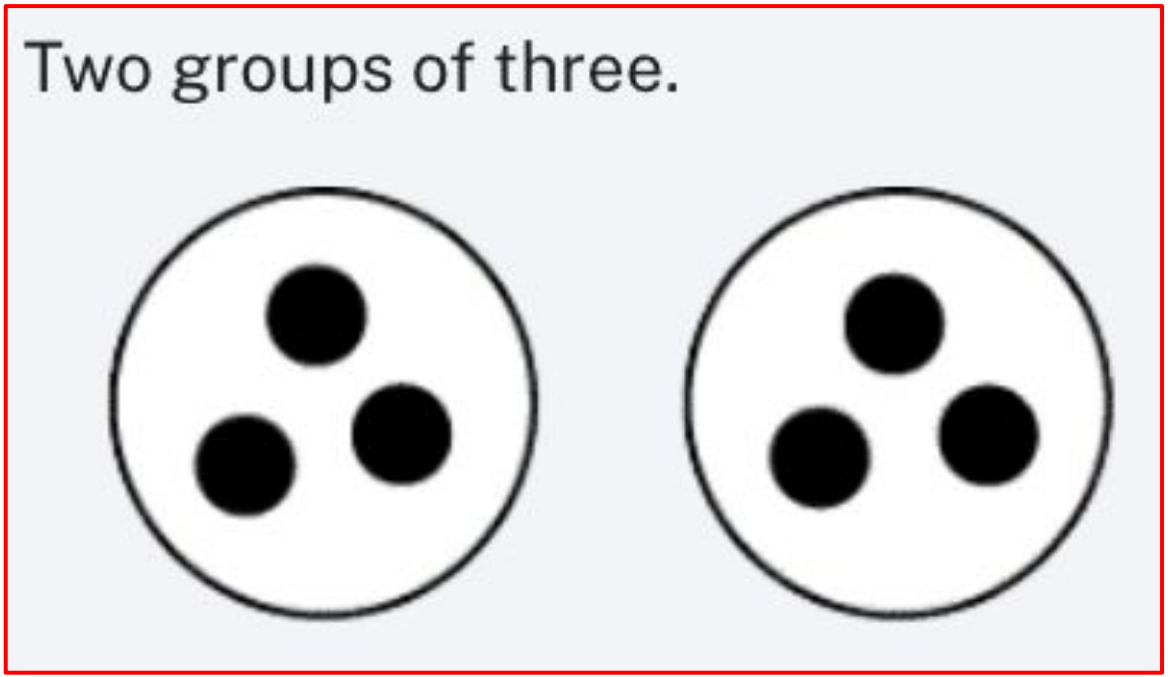

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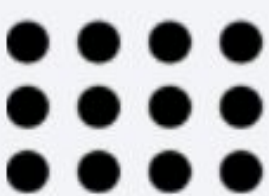

3 rows of 4 is 12	3 x 4 = 12
4 columns of 3 is 12	4 x 3 = 12
12 shared into 3 rows is 4	12 ÷ 3 = 4
12 shared into 4 columns is 3	12 ÷ 4 = 3

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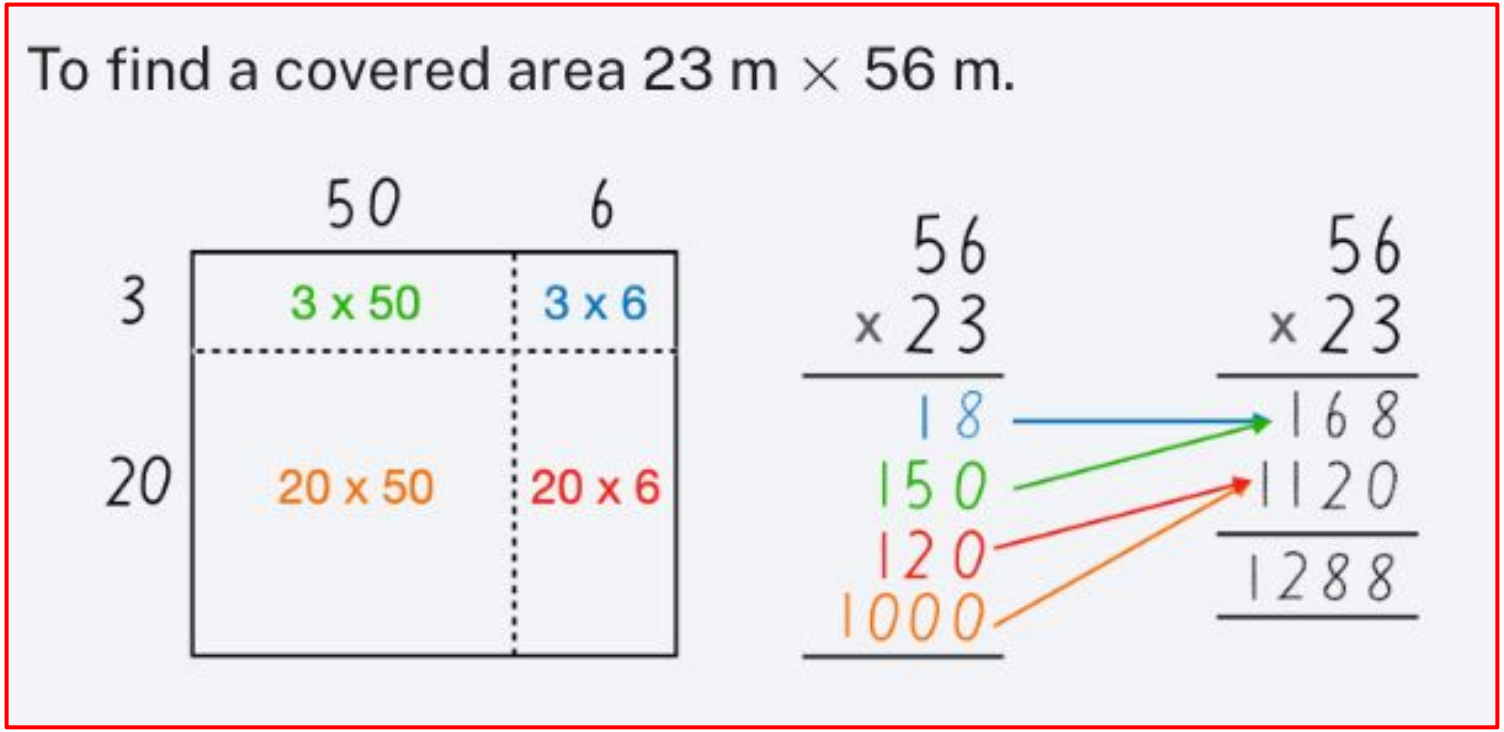
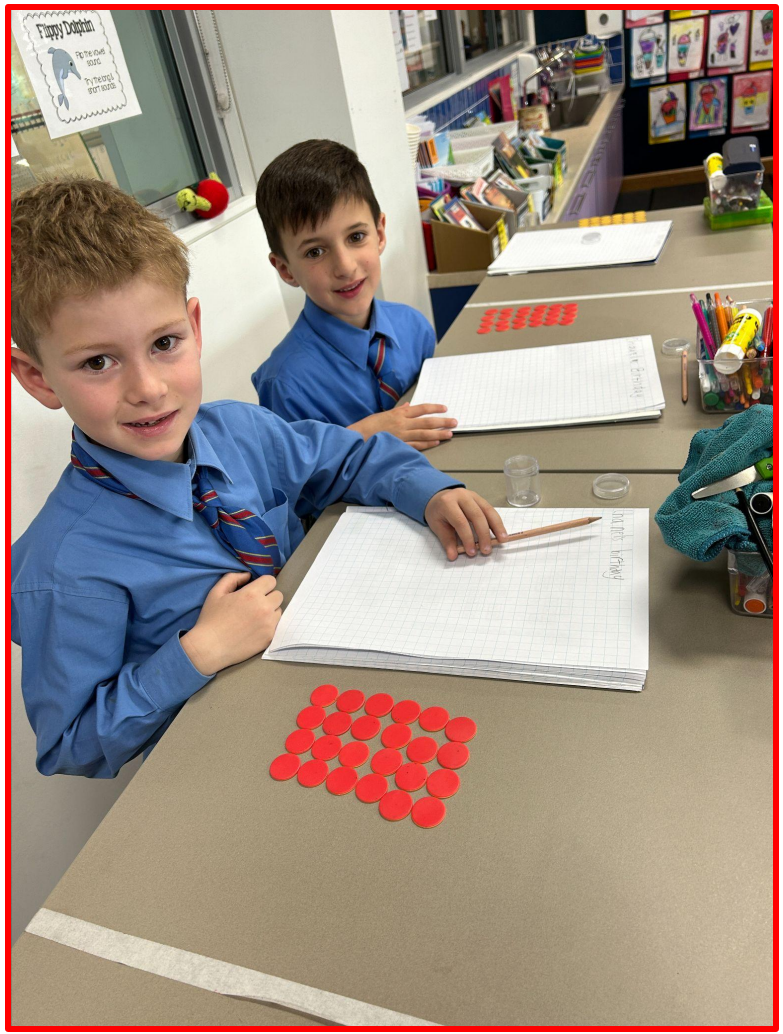
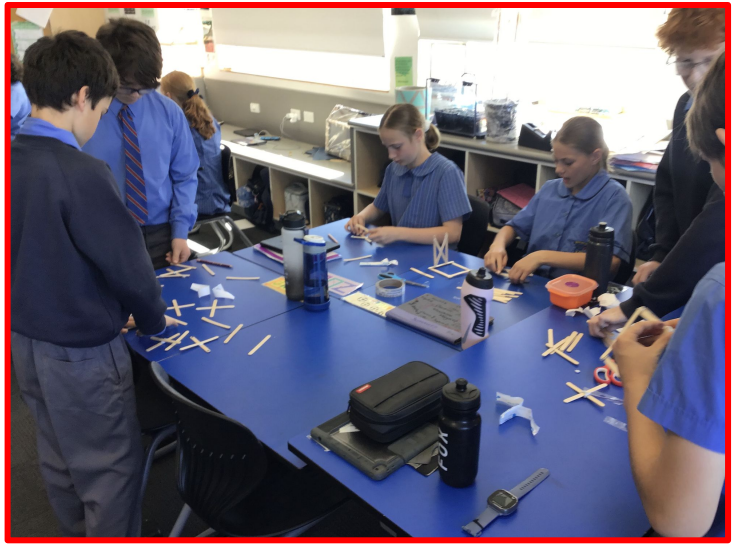
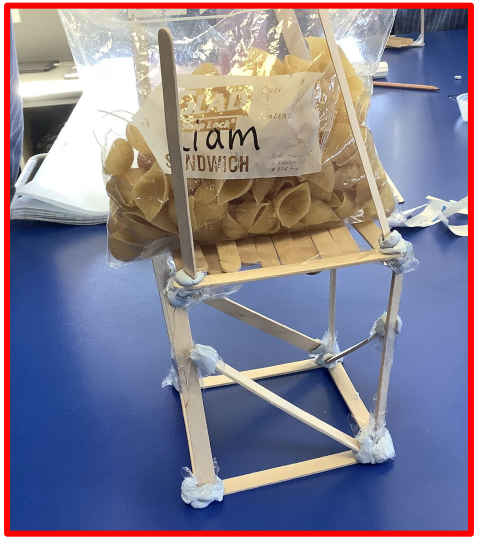



Flippy Dolphin





We all think Differently

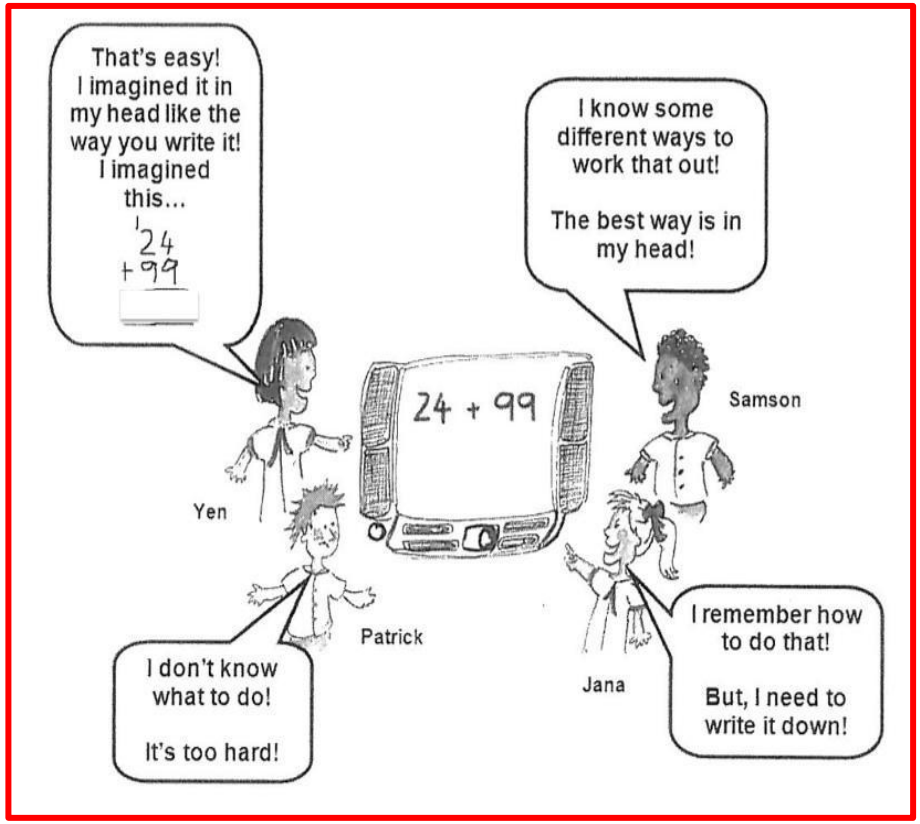
- Not one way is right
- Different solutions allow us to avoid errors
- Evaluate preferred strategies
- Most efficient strategies with accuracy
- Flexible and fluent thinking about numbers.

We want students to perform mental strategies in the most efficient way but also to be able to communicate strategies using mathematical language to explain their thinking.

A Maths Moment is anything from a 30 second conversation to a 10 minute game. It all adds up! (pardon the pun)

-Dr Ange

number doctors



Math Conversations - how many ways can we find the answer?

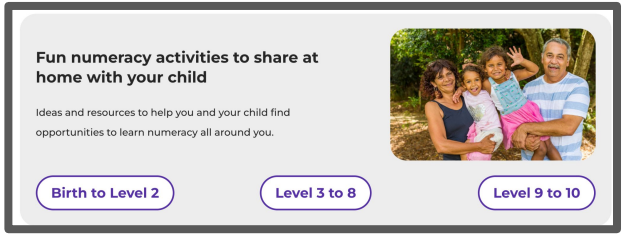
How do I best support my child to ENJOY numbers? How can I integrate Maths into our daily routines?

- Play any **game** that uses dice eg Snakes and ladders, Dominoes
- **Speak mathematically,** how much?, how long? how long until?
- Buy an **analog clock** sport/hobby schedules. Using the terms past and to the hour, quarter past/to, half past/to
- **Travel**- timetables, book holidays, speed signs/limit/distance km
- **Cooking/ Sewing/Building**- measuring, decimals, fractions
- **Calendars-** birthdays family and friends, days of the month, number of days, how long until?
- **Shopping-** Using money best buys, supermarket comparisons, making change- counting up or subtracting dollars first then cents (tens first then fives)
- **Sharing** items amongst family members
- **Number blocks** ABC-Iview catch up

Iview: Number Blocks for Infants

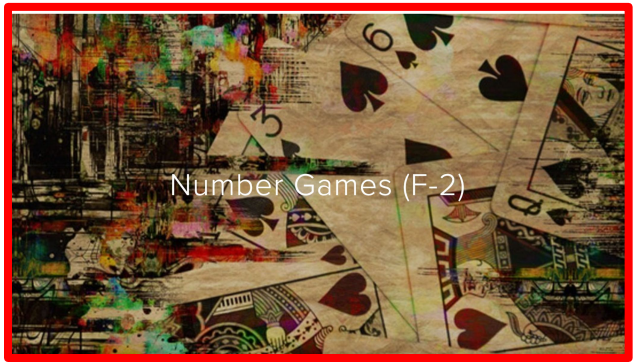
Numeracy at home

Find information, advice and activities for families to help their child's numeracy learning at home.

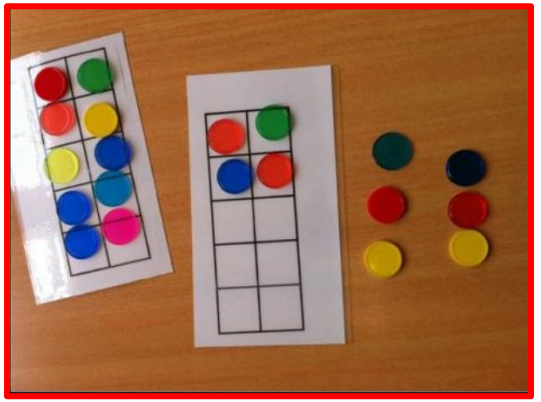


Link for **Infants**
Link for **Primary**

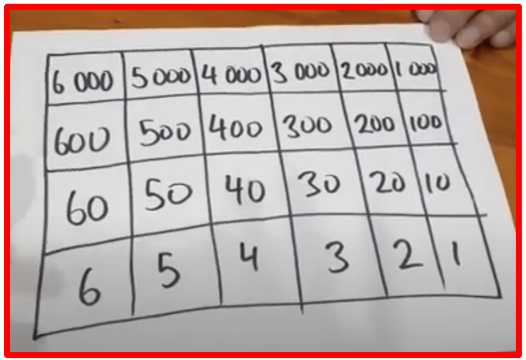
Love Maths- Infants and Primary



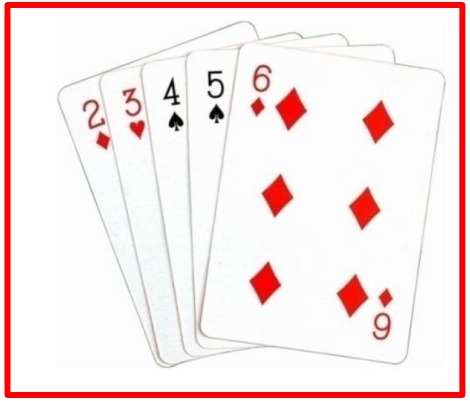
Infants Games



- Race to 20 (tens frames)
- Go Fish- Number Bonds
- Number bonds snap
- Adding to 12 (Optional:18 - 3 dice)
- Place Value Knockout (Yrs 2-5)



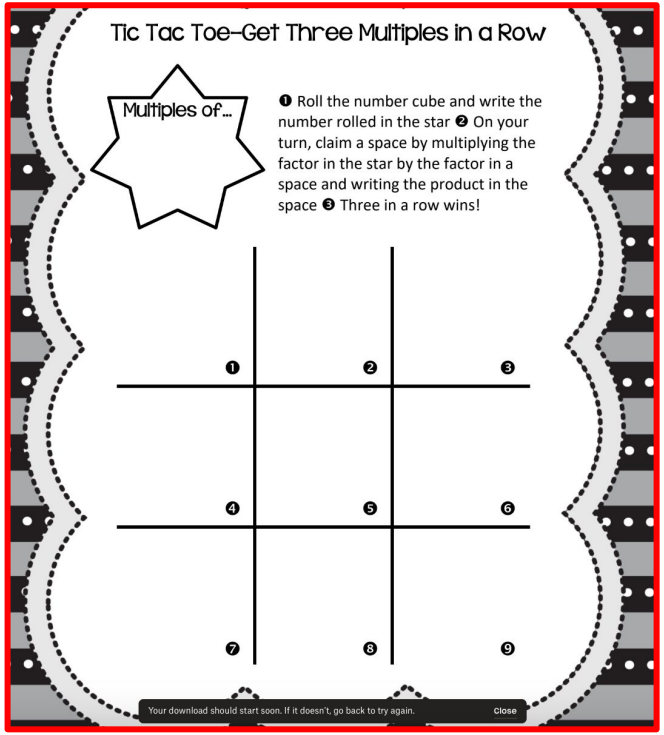
Maths Toolkit

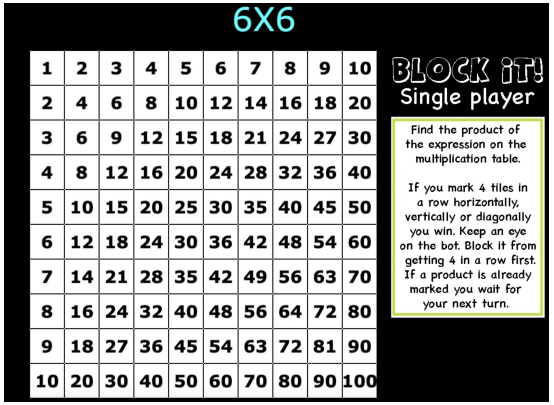


Multiplication Yrs 3-6

Block it- online multiplication

APSMO
A not-for-profit organisation





Problems of the Week

Fact: Everybody does maths everyday

-Dr Ange

Maths is not hiding... it is right there, everyday...

-Dr Ange