The background of the slide is a vibrant, stylized illustration of tropical plants. It includes various types of green leaves, such as long, feathery fronds, broad banana leaves, and a Monstera leaf with characteristic holes. Some leaves have a slight blue or teal tint, giving a sense of depth and a tropical atmosphere. The plants are arranged in a way that they appear to be framing the central text.

Primary 1 Parents' Mathematics Workshop 2022



Objectives

Parents will be able to:

1. support the child's mathematical learning using different strategies and activities
2. guide the child to connect mathematics concepts and skills to real life situations

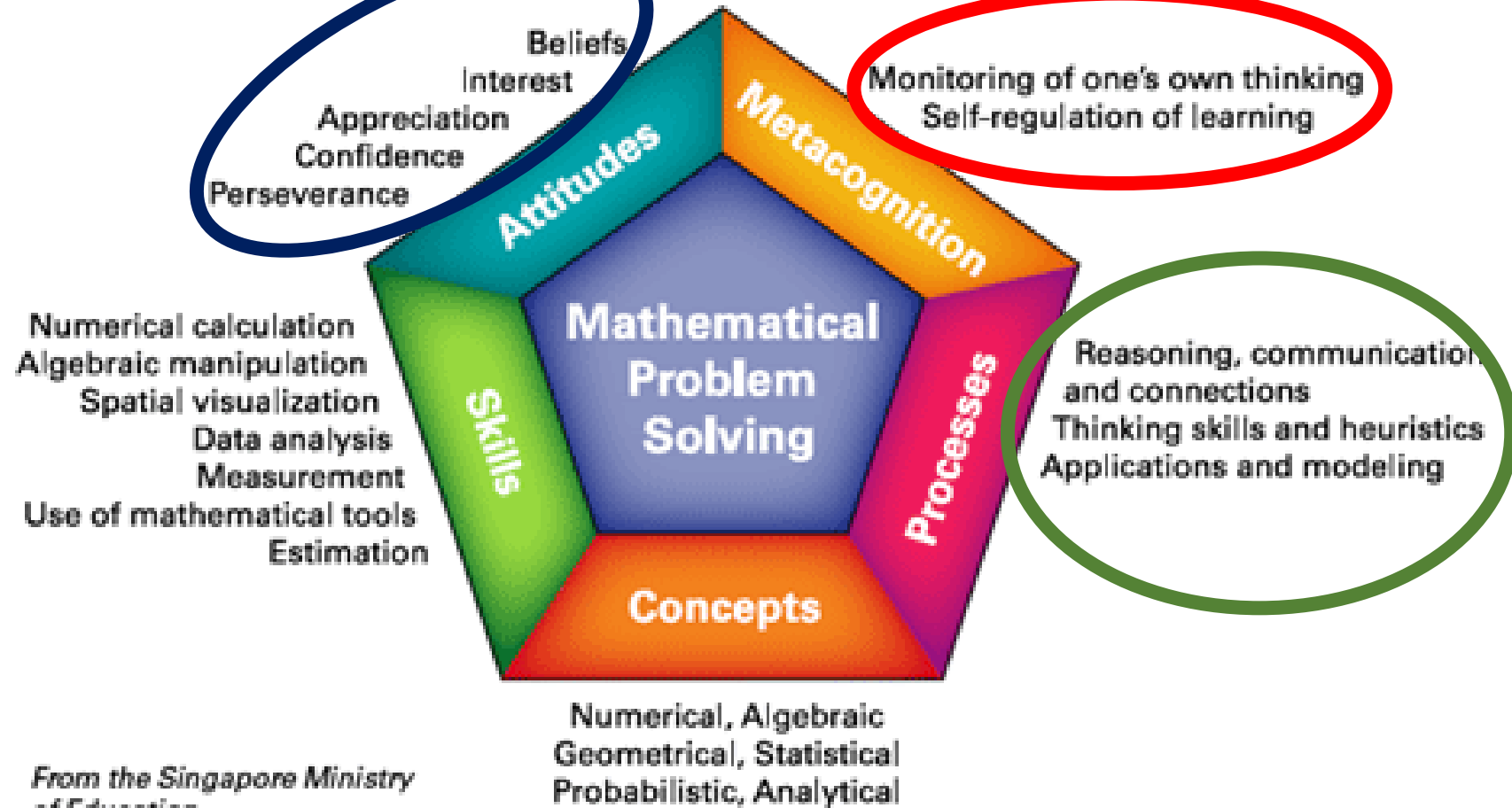


We make the learning of mathematics fun, meaningful and relevant so that the students develop positive attitudes towards Mathematics.

Mathematical processes allow students to connect mathematics that they have learnt to the real world. Through mathematical modelling, they learn to deal with ambiguity, make connections, select and apply appropriate mathematics concepts and skills to help them make informed decisions.

We teach students to monitor their own thinking so that they know when and how to use the strategies, to think aloud and reflect on what they are doing.

Singapore's Mathematics Framework





Aims of Mathematics

- Acquire and apply mathematical **concepts** and **skills**;
- Develop **positive attitudes** towards mathematics.



Aims of Mathematics

- Develop **cognitive** and **metacognitive** skills through mathematical approach to **problem solving**
- Cognitive:** recalling, understanding, knowing the process.
Eg: different ways to add - count one by one, count on, make tens
- Metacognitive:** choosing and applying the appropriate method, checking if their answers make sense



P1 Mathematics

Number and Algebra	Measurement and Geometry	Statistics
<ul style="list-style-type: none">CountingNumber BondsNumbers to 100Addition, Subtraction, Multiplication and Division	<ul style="list-style-type: none">ShapesLengthMoneyTime	<ul style="list-style-type: none">Picture Graphs



Let's look at this activity

How many more to make 10 / 20 / 100?





Example: Make 5

3





Make 10

6





Make 20

17





Make 100

95





Why do we do this activity?

This is one example of Factual Fluency activities we do in class.

This ability to recall the basic facts in all four operations accurately, quickly and effortlessly helps the students **attain a level of mastery** that enables them to retrieve the mathematical facts for long-term memory without conscious effort.





Developing Number Sense

- What are numbers?
 - Quantities, Count, Relations, Ordering, Words, Numerals, Position
- How big is 10, 100 etc.?
- How do we help children develop number sense?

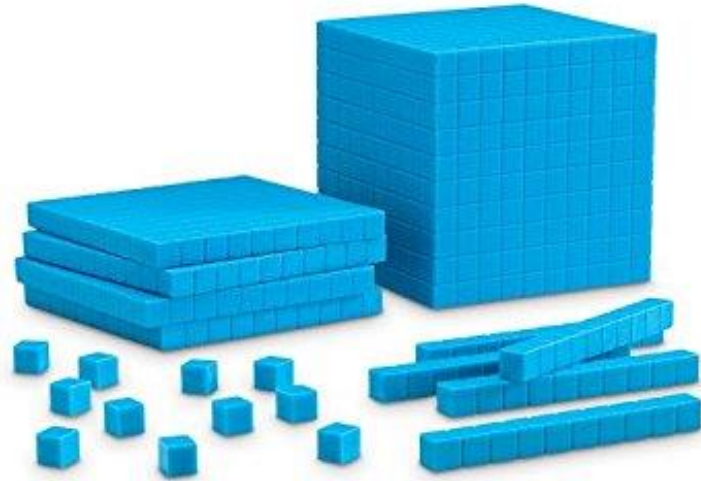


Why is there a need to develop Number Sense_____

- It encourages students to think flexibly and promotes confidence with **numbers**.
- It builds the foundation needed for simple life skills.



Manipulatives used in the classroom



We use link cubes, base ten sets and geared clocks during lessons to make learning experiences more meaningful for the students.





Hundreds Chart

100-Chart

91	92	93	94	95	96	97	98	99	100 one hundred
81	82	83	84	85	86	87	88	89	90 ninety
71	72	73	74	75	76	77	78	79	80 eighty
61	62	63	64	65	66	67	68	69	70 seventy
51	52	53	54	55	56	57	58	59	60 sixty
41	42	43	44	45	46	47	48	49	50 fifty
31	32	33	34	35	36	37	38	39	40 forty
21	22	23	24	25	26	27	28	29	30 thirty
11 eleven	12 twelve	13 thirteen	14 fourteen	15 fifteen	16 sixteen	17 seventeen	18 eighteen	19 nineteen	20 twenty
1 one	2 two	3 three	4 four	5 five	6 six	7 seven	8 eight	9 nine	10 ten



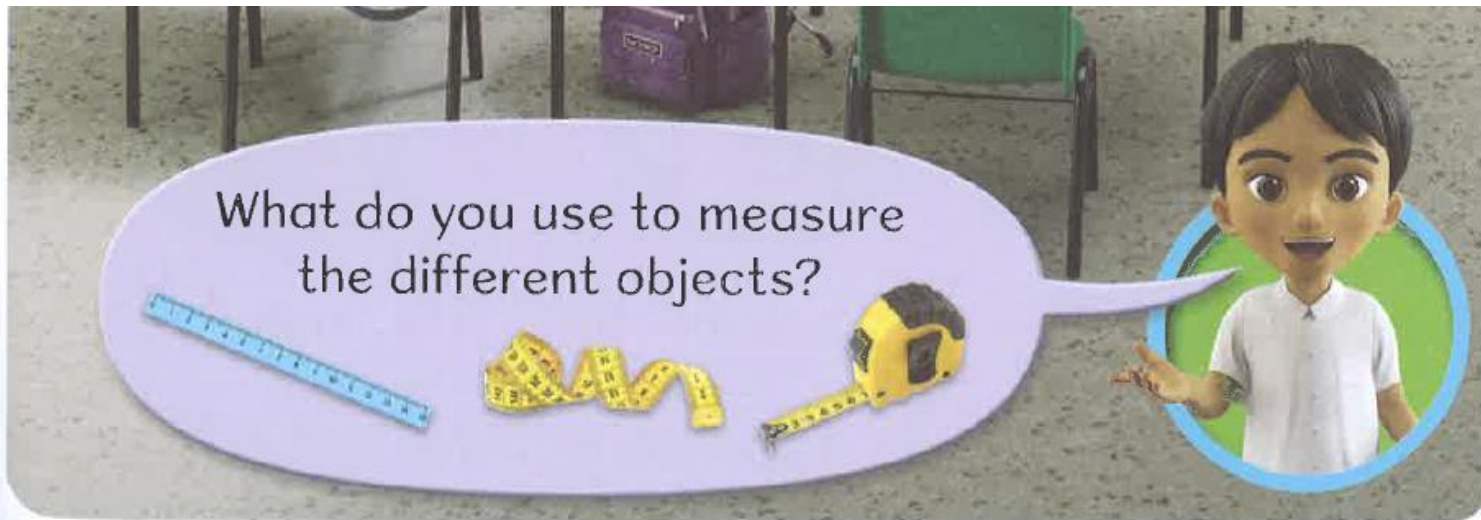
Multiplication Chart

x	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100



Math in Real Life

There are many ways how Math is used in daily life.



Primary Mathematics
Textbook 1B Pg 55
Length



Math in Real Life

Primary Mathematics
Textbook 1A Pg 14
Numbers to 10

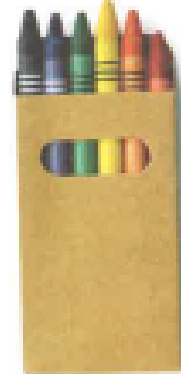
How are numbers being used?



HDB Flat—Block 5



Bus 2



6 crayons



4 people

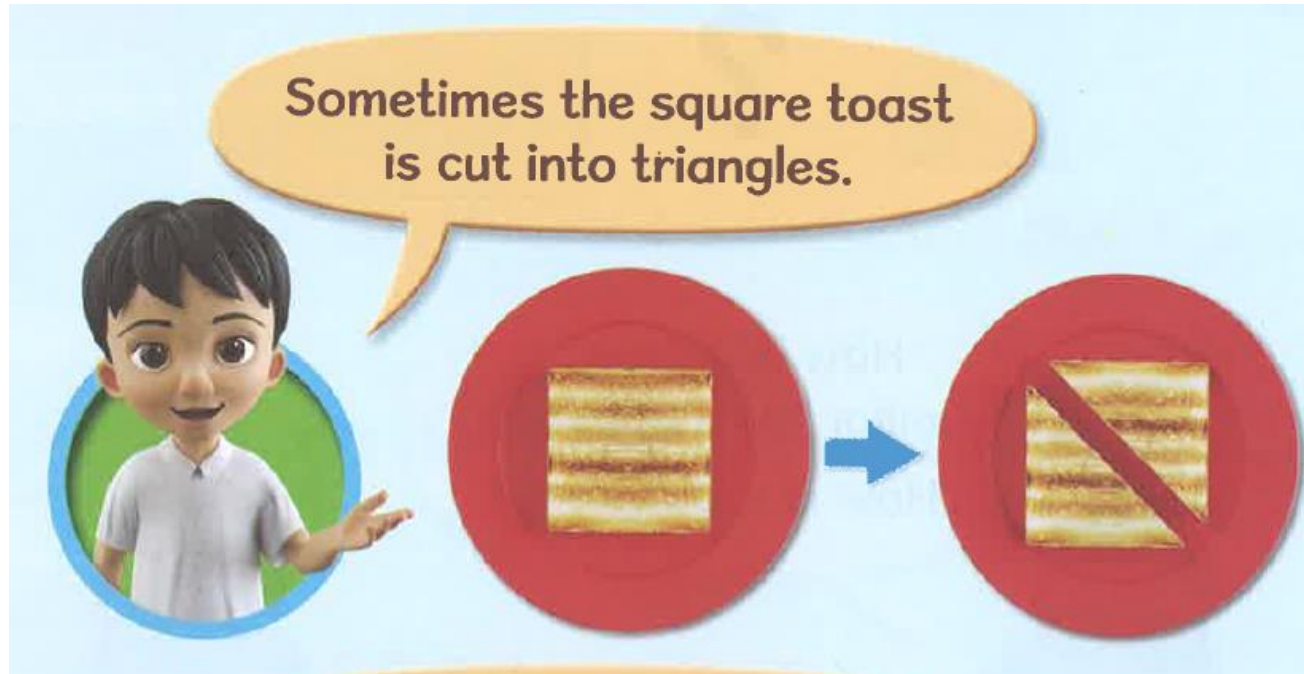
Naming/Labeling

Counting





Math in Real Life



Primary Mathematics
Textbook 1A Pg 61 Shapes

In a sports competition, the top 3 winners get to stand on the podium.



Primary Mathematics
Textbook 1A Pg 70
Ordinal Numbers



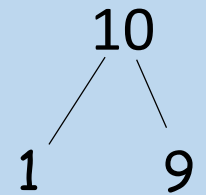
Relating Math to Real Life

Use the following objects which can be found at home to form **Number Bonds**:

- Rubber bands
- Ice-cream sticks
- Bottle caps
- Bread tags



____ and ____ make ____
Eg: 1 and 9 make 10





Relating Math to Real Life

Use readily available manipulatives

✓ For Counting

✓ Coins, Colour Pencils

✓ Sweets, chocolates, Macaroni





Relating Math to Real Life

January

sun	mon	tue	wed	thu	fri	sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

February

sun	mon	tue	wed	thu	fri	sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

March

sun	mon	tue	wed	thu	fri	sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

April

sun	mon	tue	wed	thu	fri	sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

May

sun	mon	tue	wed	thu	fri	sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

June

sun	mon	tue	wed	thu	fri	sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

July

sun	mon	tue	wed	thu	fri	sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

August

sun	mon	tue	wed	thu	fri	sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September

sun	mon	tue	wed	thu	fri	sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

October

sun	mon	tue	wed	thu	fri	sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

November

sun	mon	tue	wed	thu	fri	sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

December

sun	mon	tue	wed	thu	fri	sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Get your child to **count/ add/ subtract** the number days to get to a special date, e.g.: birthdays, school holidays.



Relating Math to Real Life

How do we read time
& calculate duration?

By using mathematics!



How long is the movie?

What time is recess?





Relating Math to Real Life

When we park our cars ...

we need to
know how
much it would
cost us.

<u>PARKING RATES</u>	
MOTORCARS	
Monday to Saturday	
7.00 am to 5.00 pm	\$0.50 per 1/2 Hour or part thereof
5.00 pm to 12.00 mn	\$1.00 per Entry
12.00 mn to 7.00 am	\$2.00 per Entry
Sunday & Public Holiday	
7.00 am to 12.00 mn	\$1.00 per Entry
12.00 mn to 7.00 am	\$2.00 per Entry
VAN / HEAVY VEHICLE	\$1.00 per 1/2 Hour or part thereof
MOTORCYCLE	\$0.65 per Entry
SEASON PARKING	
Motorcar	\$270.00 per Quarter
Motorcycle	\$ 51.00 per Quarter





Relating Math to Real Life



\$4.50

Pasar Fuji Apple
800g



\$4.55 ~~\$5.75~~

Italy Ambrosia Apple
900g



\$7.50 ~~\$8.95~~

France Organic Juliet Apple Bag
800g • Organic



\$6.95

Enza Organic Pacific Rose Apple
600g • Organic



\$2.00 ~~\$2.39~~

Sunshine Bread - Enriched Soft
White
550g • Halal



\$2.60

Gardenia Enriched White Bread -
Wholemeal (Super Soft & Fine)
400g • Halal



\$2.70

Sunshine Bread - Hokkaido Milk
Toast
400g



\$2.70

Sunshine Wholemeal Bread - Ultra
Fine
400g • Halal



**Budgeting for the
family...**

**Do you have enough
money to get what
you want?**



Relating Math to Real Life

Bargains



Discounts

Which is more worth it?





Relating Math to Real Life



How much do we save?



Sales and Promotion



Relating Math to Real Life

Measurement - Distance



Can a tall crane go under the gantry?





Relating Math to Real Life

Exceeding the Height Limit

OH NO!





Relating Math to Real Life

Measurements



3000 ml

1 litre



1 Litre



Relating Math to Real Life

Fractions



What fraction of the pizza is left?

What fraction of the pizza is eaten?





Try this at home:

Activity:

Use egg carton for

🌿 Counting

🌿 Number Bonds

🌿 Addition, Subtraction, Multiplication and Division





Try this at home:





Let's Play and Learn

Instructions:

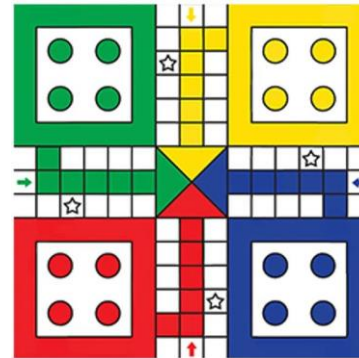
- Player 1 shakes the egg carton with the two beads in it. Add the 2 numbers that the beads landed on.
Player takes note of the “total”.
- Player 2 does likewise and so forth.
- At the end of several rounds, each player to add up all the totals to get his final score.
- The player who adds up accurately and efficiently wins the game.
- It can be more than 1 player winning the game.

This can be done for subtraction, multiplication and division.
You just need to change the numbers in the tray if necessary.

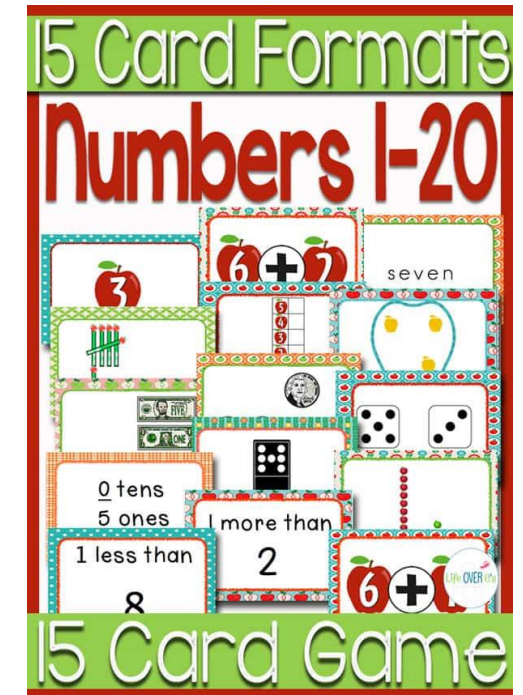
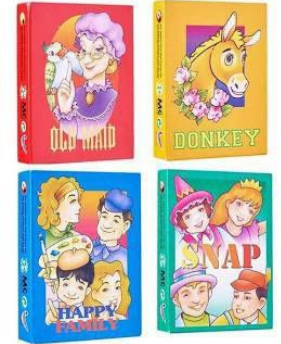


Play and Learn through

- Card Games
- Board Games
- Online Games



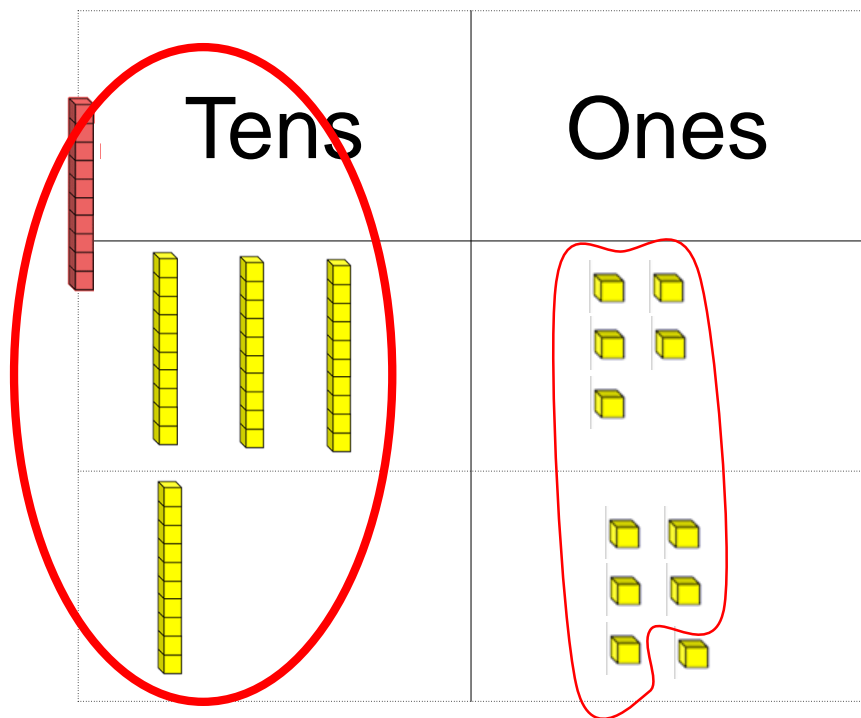
RETRO CARD GAMES





Integration of knowledge and skills

Addition within 100



	Tens	Ones
	¹ 3	5
+	1	6
	5	1

5 ones + 6 ones = 11 ones

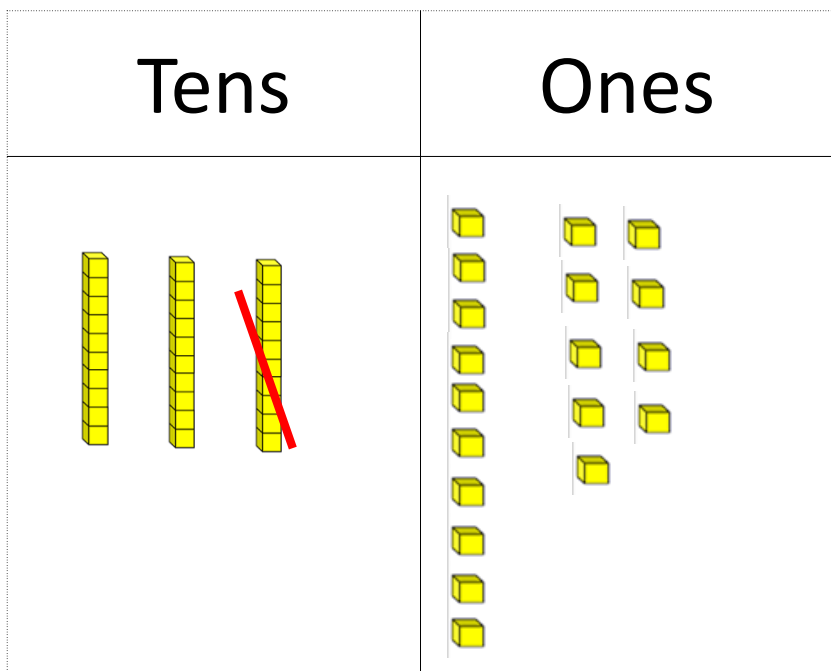
11 ones = 1 ten 1 ones

1 ten + 3 tens + 1 ten = 5 tens



Integration of knowledge and skills

Subtraction within 100



	Tens	Ones
	2 3	15 5
—	1	6
	1	9

1 ten = 10 ones

10 ones + 5 ones = 15 ones

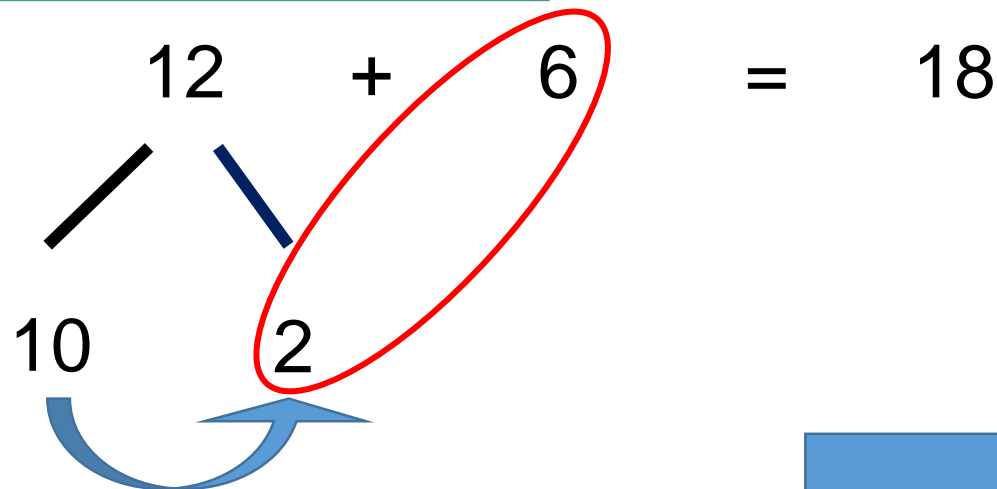
15 ones – 6 ones = 9 ones

2 tens – 1 ten = 1 ten



Integration of knowledge and skills

Break the
number into
smaller parts



6 and 2 make 8
10 and 8 make 18

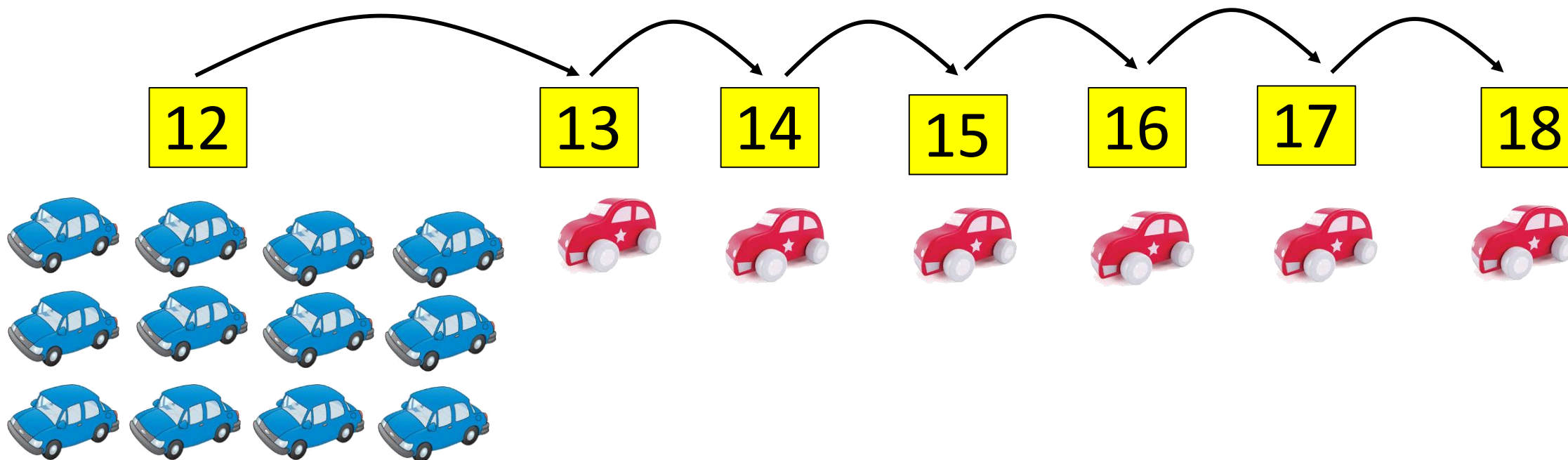
Number bonds
(adding ones first)
Addition within 20





Integration of knowledge and skills

Count on $12 + 6 = 18$





Integration of knowledge and skills

- Use the textbooks as a guide and reference to what is being taught in class





Learning through Thinking

- Students communicate mathematically through questioning and reasoning
- Students self-regulate their own thinking
(also known as metacognition)



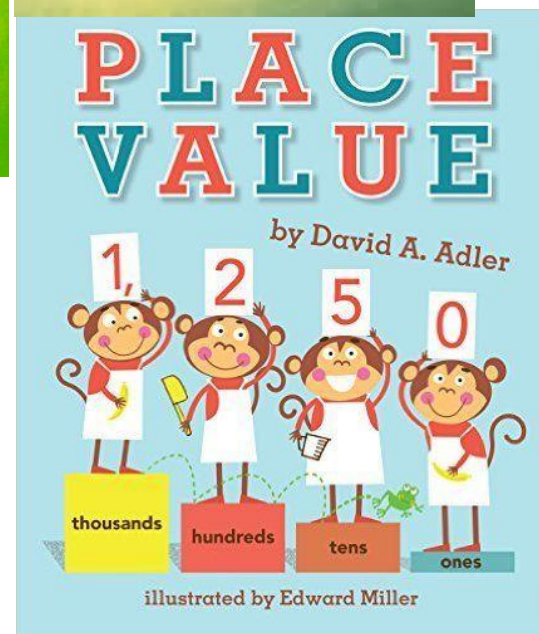
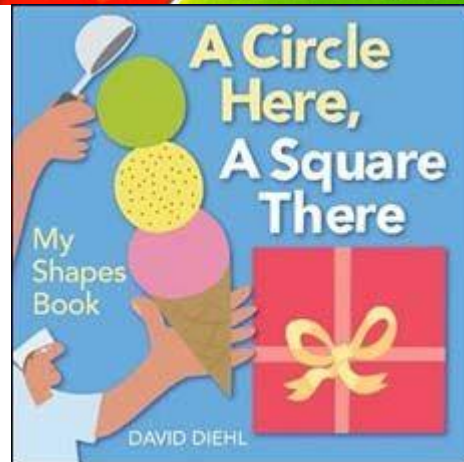
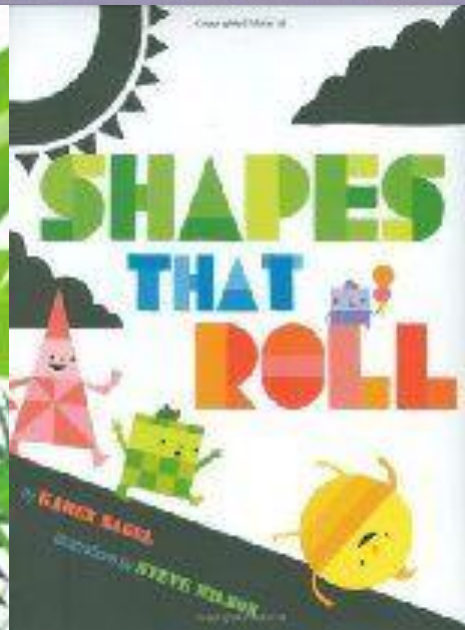
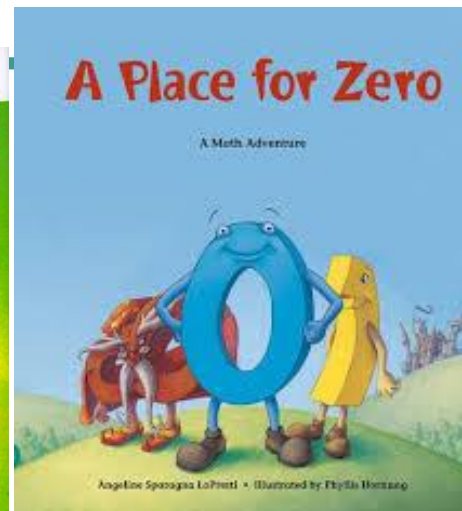
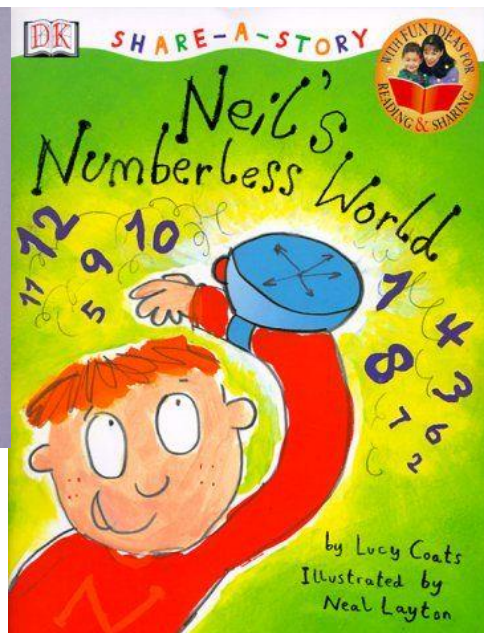
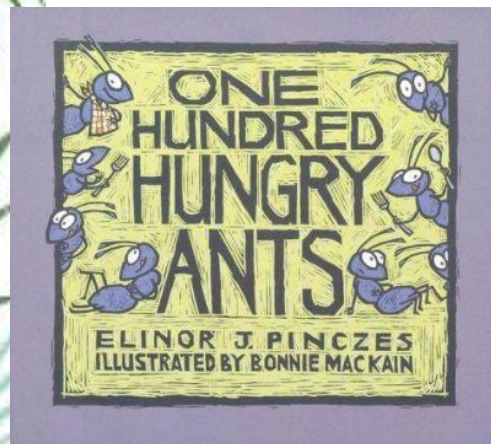
Class Activities

- Use of **Cooperative Learning Strategies** to learn with peers and be accountable for their own learning
- Use of the mini whiteboard/technology to respond individually, and during pair and group work

uses small group tasks and activities as a learning experience.



Storybooks





Storybooks



- Provide meaningful context for mathematical content
- Increase the level of interest
- Explain/Review a mathematics concept or specific skill
- Model an interesting problem
- Promote critical thinking





Read a story – Telling Time with Big Mama Cat

<https://youtu.be/V4zeGFpBabE>





Tips to Support your Child at Home





Strategies For Parents in Coaching

Make it Fun!



Confidence
Curiosity
Courage



Reinforce
positive
behaviour and
attitude



Focus on
effort, not
mistakes



Focus on Child's
progress and ability



Make connections to
real life



Pose problems
according to their
current level of
knowledge

PRAISE



Online Resources

- <http://nlvm.usu.edu/>
- <http://nrich.maths.org/public>
- http://www.bbc.co.uk/schools/websites/4_11/site/numeracy.shtml
- <https://www.mathplayground.com/math-games.html>
- <https://www.matholia.com/sg>
- <http://coolmath4-kids.com/manipulatives/base-ten-blocks>





Do you know?

Your **presence and involvement** in your child's learning process will encourage and support your child in his/her learning.



Helping Your Child

PRACTICE

makes

PROGRESS,

NOT

PERFECT.

NEVER
NEVER
NEVER
GIVE UP

Winston Churchill

BELIEF

The amount of Belief you have determines the amount of Potential you can tap into

POTENTIAL

The amount of Potential you tap determines the amount of Action you take

The Belief Cycle

RESULTS

The Results you get determine your Belief in yourself.

ACTION

The amount of Action you take determines the Results you get.