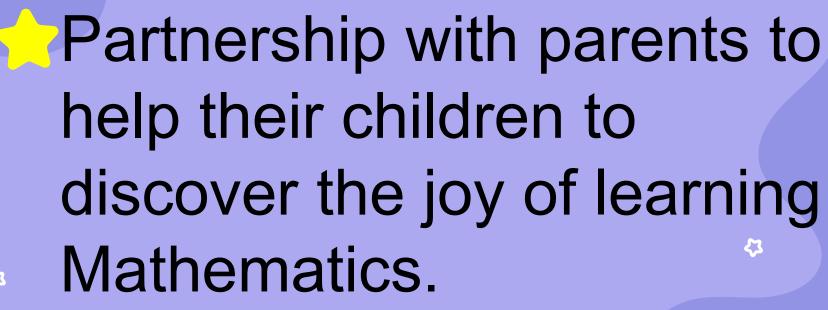


The materials shared in today's workshop are under the property of Junyuan Primary School, Mathematics Department.

Please do not take any photos or videos throughout the sharing.

Thank you for your understanding.

Objectives









தாத்தா - பேரன் வயது வித்தியாசம்; ஆனாலும் மலர்ந்தது நெருங்கிய பந்தம்

tamilmurasu.com.sg

மேலும் அறிய >

Your kids aren't lazy; they just don't know how to revise independently



It is important for parents to find out why their kids procrastinate or are reluctant to hit the books. PHOTO ISTOCKPHOTO









Dr Lee, a former teacher attested : "There is no inherently 'lazy' kids."

Dr Lee, a senior lecturer in Psychology and Child and Human Development at NIE commented that some kids may lack the drive to study and become disengaged.

By labelling unmotivated kids as lazy, incorrectly implying a flaw in their character.













Provide a distraction - free learning environment :

- Do not use your phone when you are at their study space as that will be distracting to them. Do your own work or reading.
- Take a supportive role, offering encouragement and being there if they have questions.

Main goal: To help your child to develop the skills and confidence to study independently as they advance in his /her education.



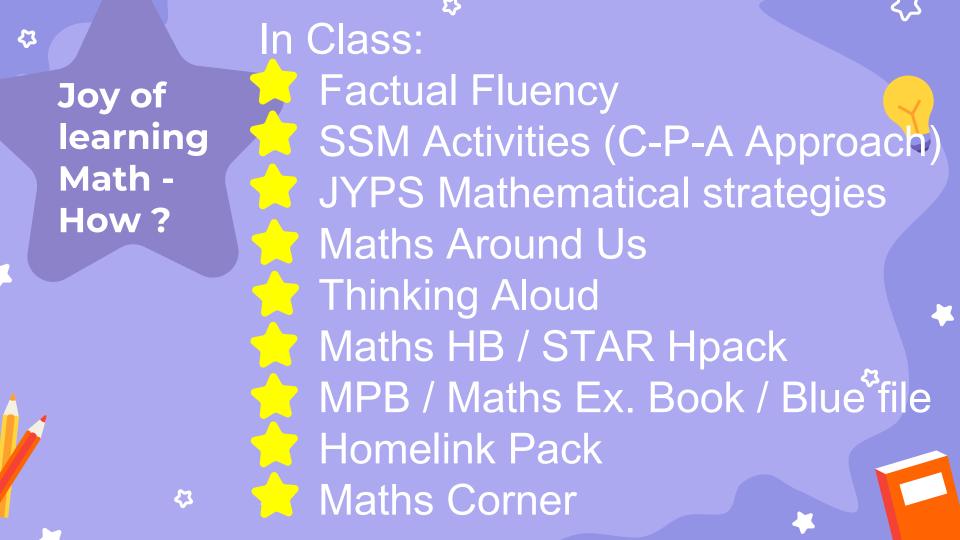


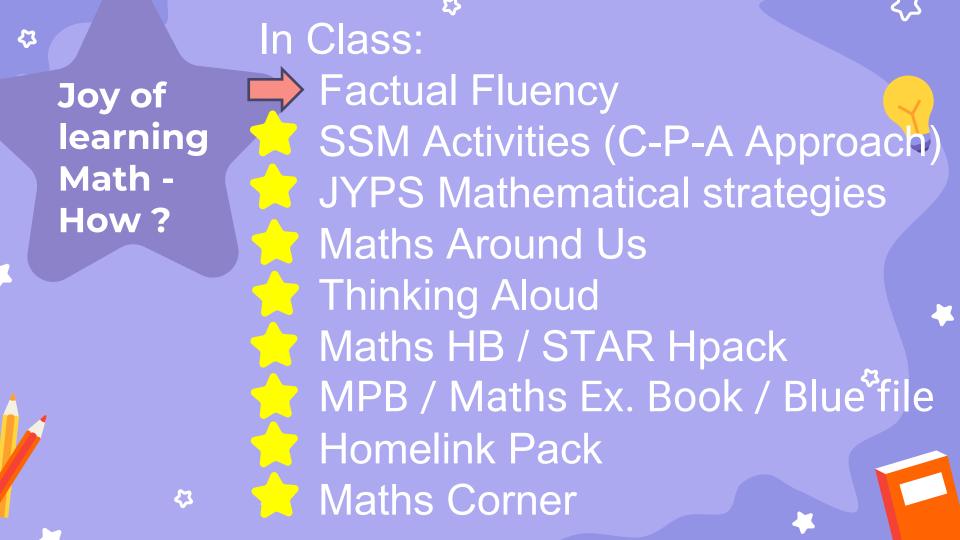
43



In this foundational stage in your child's formal schooling, it will be good if your child can work at being organised in getting ready for school.









Maths facts fluency refers to the to recall basic ability mathematical facts in all four operations accurately, quickly and effortlessly.

Factual Fluency

Why is it useful to master factual fluency?

When students achieve automaticity with these **facts**, they have attained a level of mastery that enables them to retrieve mathematical facts without conscious effort/attention. Automaticity is the ability to do things with an automatic response pattern or habit. It is usually the result of learning, repetition and practice.

*Factual Fluency is conducted on a frequent basis using students' mini whiteboard.







Make 20 *









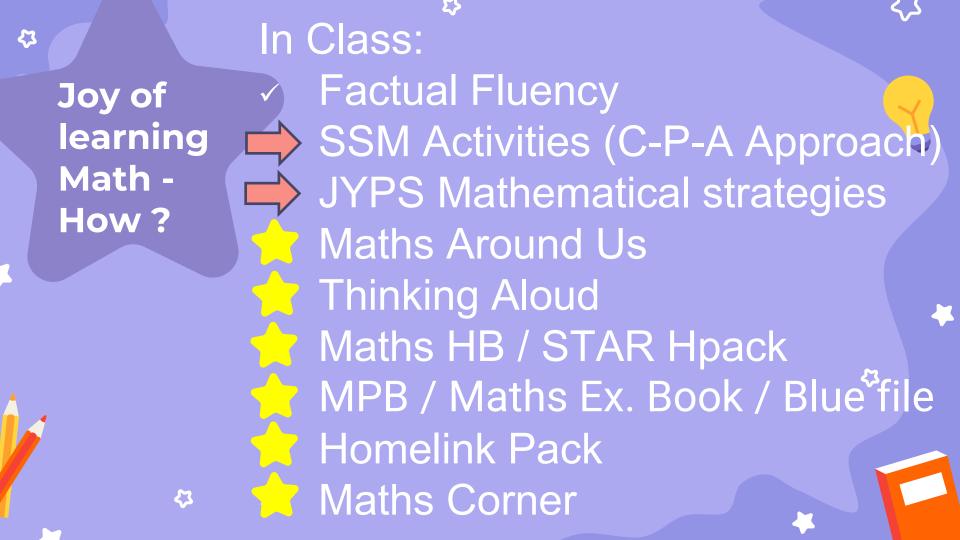












Sustained Support for Maths Activities

Students learn Maths concepts through a series of activities using the CPA (Concrete - Pictorial - Abstract) approach to develop conceptual understanding. The activities hinge on the principles of early success, strong basics and steady progress. The focus is to provide students the learning experiences from concrete, to pictorial and then to abstract. This involves the use of manipulatives, songs, storybooks and touching on their daily experiences.



- We use VTR (Visible Thinking Routine) to uncover students' thinking about thinking
- It helps support lifelong learning

 It develops students' awareness of their own thinking
 - (J. B. Biggs, 1987)
 - It gives teachers an insight of students' misconceptions so teachers can address misconceptions accordingly



Visible Thinking Routine (VTR)

Making thinking visible through...

- See Think Wonder
- Chalk Talk
- l used to think..., Now I think
- What makes you say that?





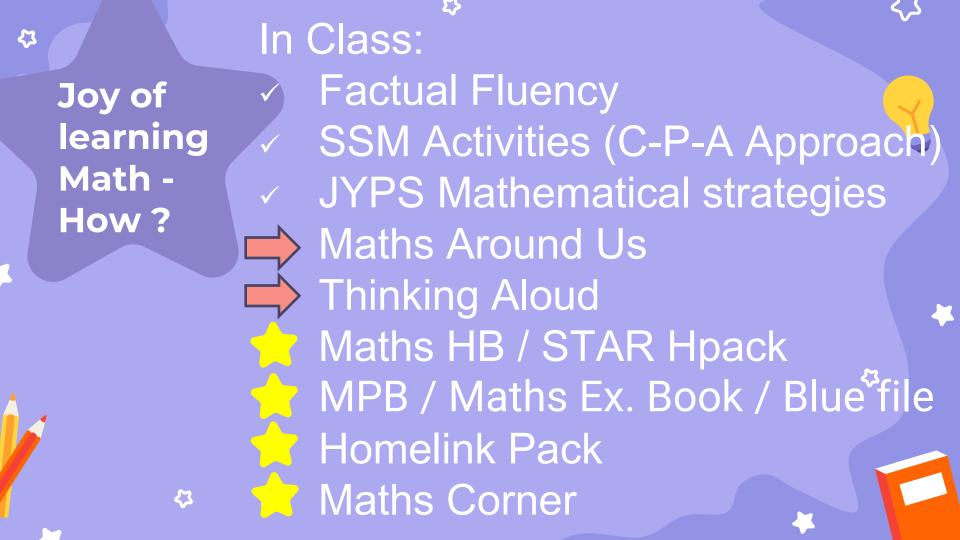
SEE THINK WONDER

- Helps students make careful observation
- Helps students develop their own ideas and interpretation based on what they see
- Encourages students to wonder and question, stimulating curiosity
 - Helps students reach for new connections



WHAT MAKES YOU SAY THAT?

- Students describe what they see or know
- Helps students build their explanations
- Promotes evidential reasoning as it invites students to share their interpretation
 - Encourages students to understand alternatives and multiple perspective





Thinking Aloud



Provides students the opportunity to take on a more active role of making sense of what they have learnt and to verbalise their learning with peers.



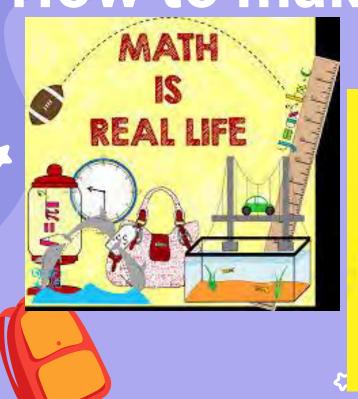


*Maths Around Us



- Provides opportunity for students to articulate their understanding on how the concept is used in real world context
- This allows students to clarify their own thinking, deepen their reasoning, listen to others' reasoning and consolidate their understanding.

How to make Maths come alive?



Math is Everywhere!





Helping your child apply Maths concept in their daily lives, will bring meaning and joy in your child's learning.













Addition and Subtraction understand concepts of within 10

Students are to be able to:

addition, subtraction and their relationship

- use of + , and =
- add and subtract within 10
- mental calculation involving adding and subtracting



Number Bonds

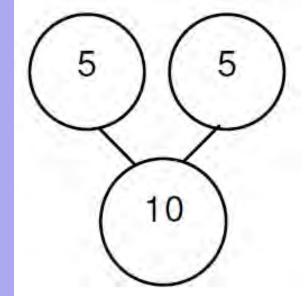
- Why is it useful to master number bonds?
- Helps students to master the basic addition and subtraction facts easily Commit the number bond facts to memory.

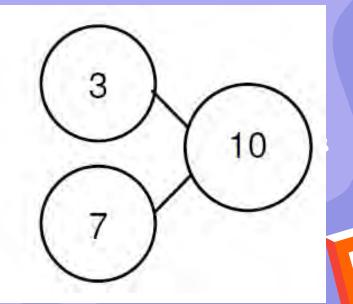


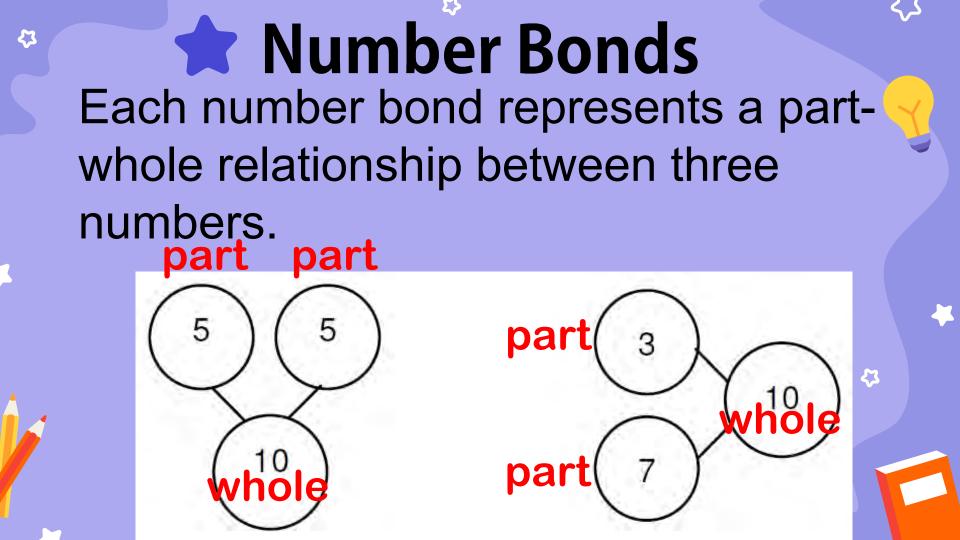
Number Bonds

Different combinations of two numbers that make up a given number.

Example:



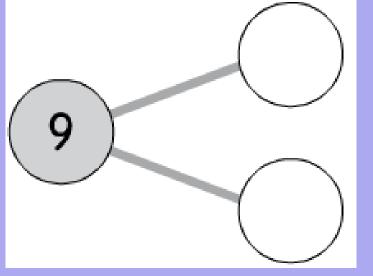




Number Bonds

Related to a family of four basic addition and subtraction facts.

Example of Fact Family



$$2 + 7 = 9$$

$$9 - 7 = 2$$

$$9 - 2 = 7$$





Number Bonds of 10

- 0 and 10 make 10 1 and 9 make 10 2 and 8 make 10 3 and 7 make 10 4 and 6 make 10 5 and 5 make 10
- 6 and 4 make 10 7 and 3 make 10 8 and 2 make 10 9 and 1 make 10 10 and 0 make 10

5+5=6+4

43



Maths Around Us - Subtraction Within 10



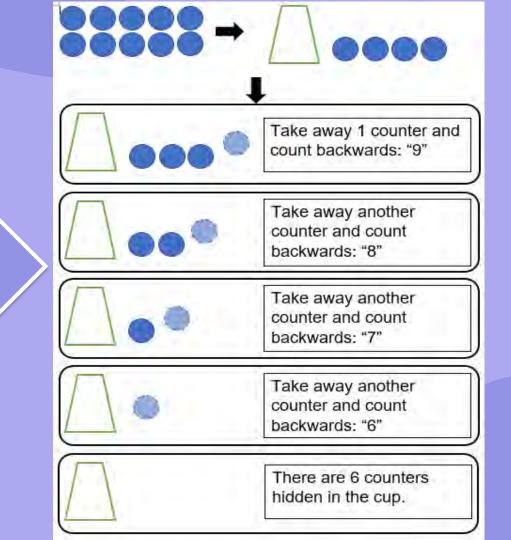


There are 7 people in the van. 2 people get off from the van. There are 5 people left in the van.

Subtraction Within 10

Concept

 Subtraction as 'taking away' from a set using 'count back' strategy



Counting back to find

number of counters in the cup



Thinking OAloud

Leila has <u>1 few</u>er mango than Jiahao.

Jiahao has 1 more mango than Ken.

What do you know about the number of mangoes each child has?



Using VTR "What makes you say that?" Guiding questions

- If Leila has 8 mangoes, how many mangoes do Jiahao and Ken have? What makes you say that?
- 2. Try to replace the number of mangoes Leila has with other numbers within 10.
- 3. What can you learn from this activity?

 Answer

 The difference will still be the same

even if we use different numbers.



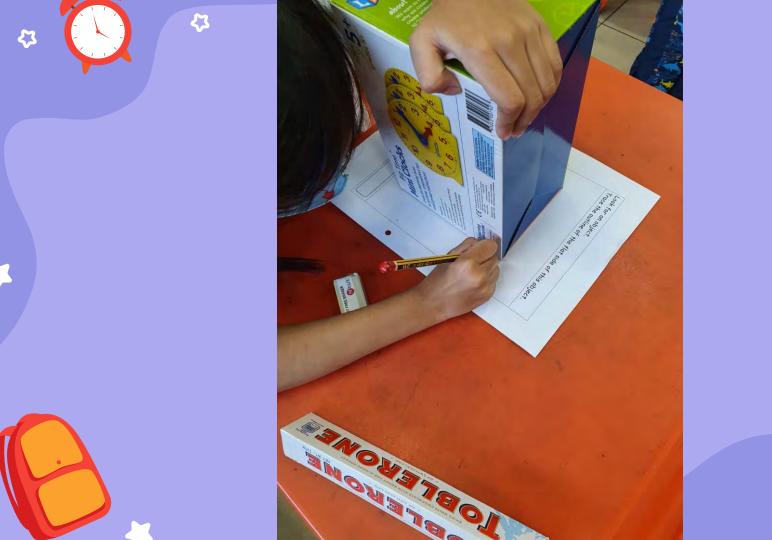
Students are to be able to:

Identify and name 4 basic shapes

Shapes

Lesson Procedures

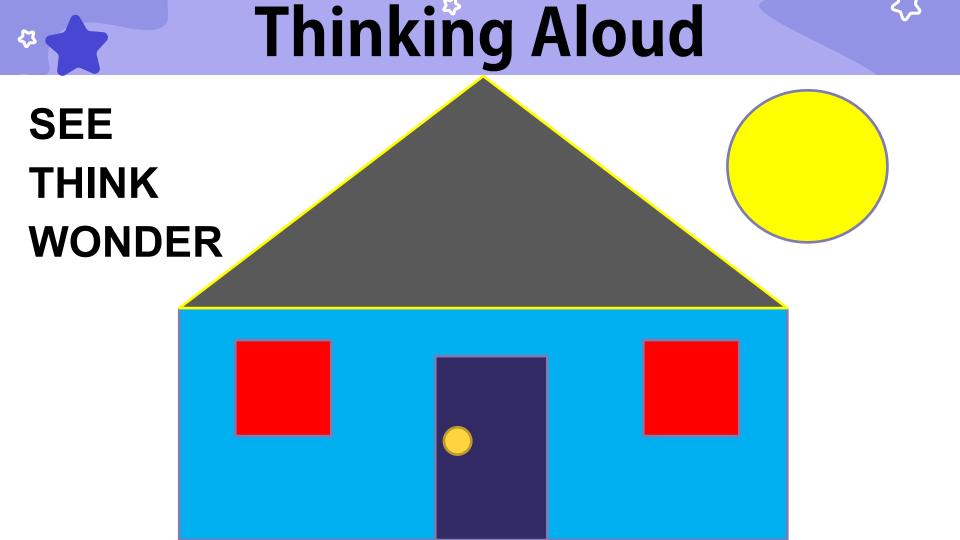
- 1. Students to touch & feel 3D objects.
- 2. Then, Students to find & trace the 4 basic shapes on the 3D objects on their Activity Sheet. Students to write the name of the shape identified.
- 3. Show Students' work on visualiser where they will discover how the traced figures are basic shapes though the objects are rotated.



Maths Around Us



This is the newly built structure in our school. We can see shapes such as circles, squares and rectangles on this structure.

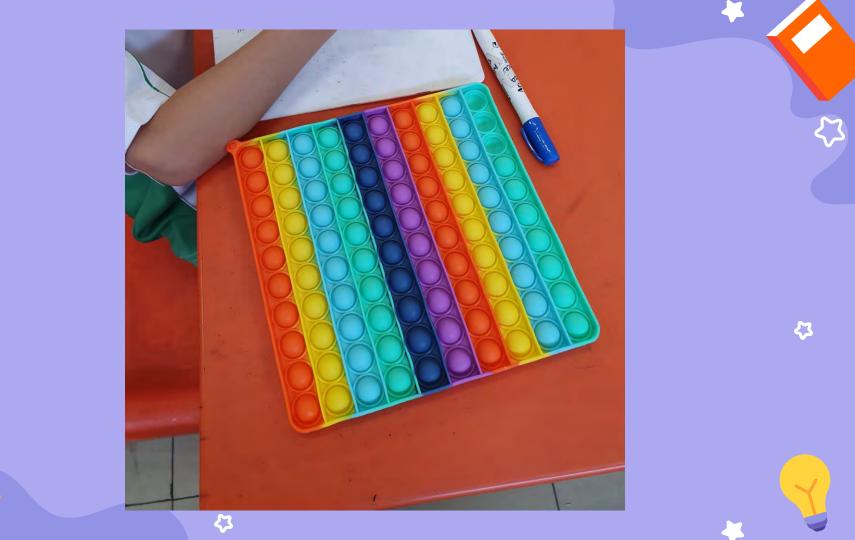


Addition and Subtraction within 100

- 68 63
- <u>-17</u> <u>-17</u>

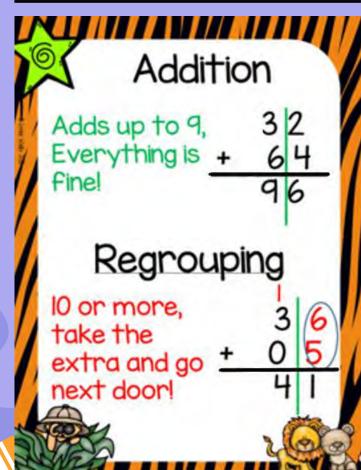
Students are to be able to:

- add more than two 1-digit Conumbers
- add and subtract within 100
- use algorithm to add and subtract within 100
- mental calculate addition and subtraction within 20

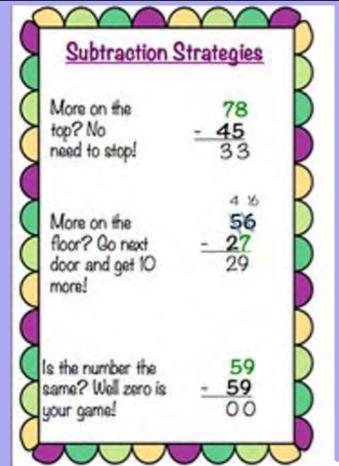


Addition Poem

43



Subtraction Poem



Example

Using of base 10 set to add tens without renaming





Working

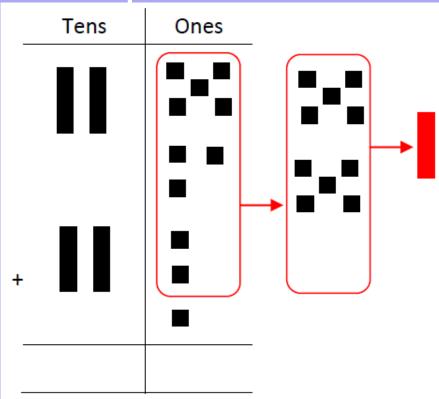
43

Example : 28 + 23

				WOLK	ing
_	Tens	Ones		Tens	Ones
		•		2	8
+			+	2	3
_					



Example : 28 + 23



Renaming 10 ones into 1 ten

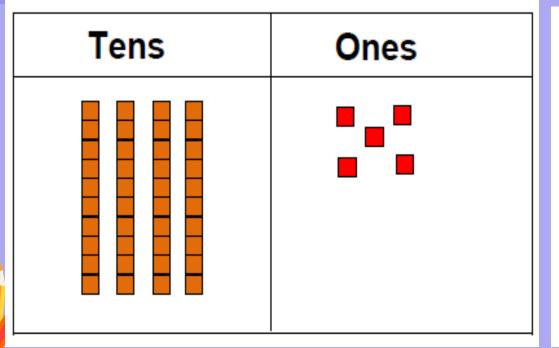


Example : 28 + 23

				Working	
_	Tens	Ones		Tens	Ones
				1+	
				2	8
+			+	2	3
_				5	1



Example: 45 - 7



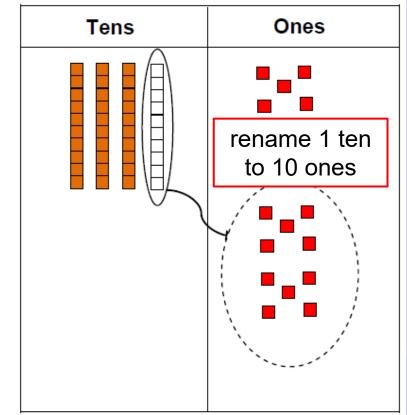
	Tens	Ones
	4	5
-		7





Example: 45 - 7

	Tens	Ones
_	4	5
-		7









Example : 45 - 7

	Tens	Ones
	3	15
	4	Ø
-		7
		8

Tens	Ones
	left









Example: 45 - 7

Tens	Ones
3	15
¥	Ź
	7
3	8
	3 \\

Tens	Ones
left	

Maths Around Us

Look at what happens when a bus is at a bus stop.



1. What happens to the number of passengers when there are only passengers getting on?

2. What happens to the number of passengers when there are only passengers getting off?

When a bus is at the bus stop, can we know immediately if there are fewer or more number of passengers than before?

4. Write an addition/ & subtraction story when there are 50 passengers in the bus before it stopped at the bus stop.



Thinking Aloud

see ...

43



I think ...



Siti wants to pack 6 lollipops into bags for the lucky draw winners at her birthday party.

She has 3 bags to pack the lollipops equally into each bag.

I wonder ...

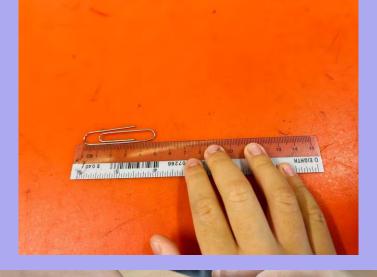
In how many different ways can Siti put the 6 lollipops into 3 different bags?





Students are to be able to:

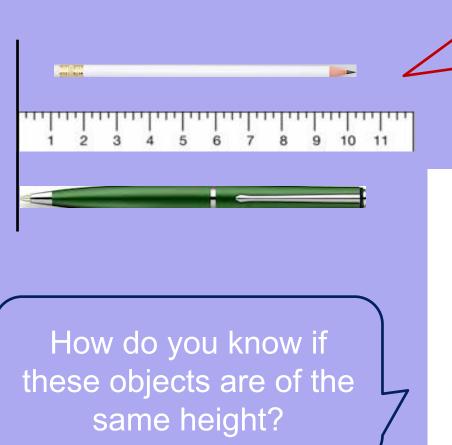
Compare and order lengths in cm











How would you describe the length of these objects?
Which is the longest?





Maths Around Us





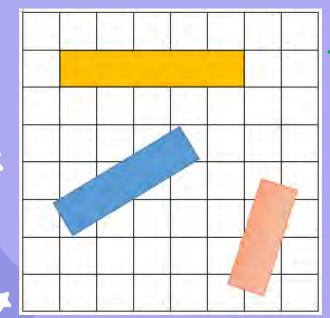


Which measuring tool will you use to measure a soccer ball to find out if it can fit a locker?

Which measuring tool will you use to measure the whiteboard / your waist?
What makes you say that?

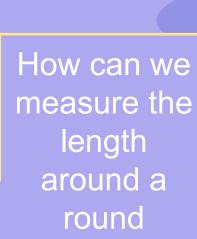


Thinking Aloud



What makes you say that the pink tape is the shortest?





object?



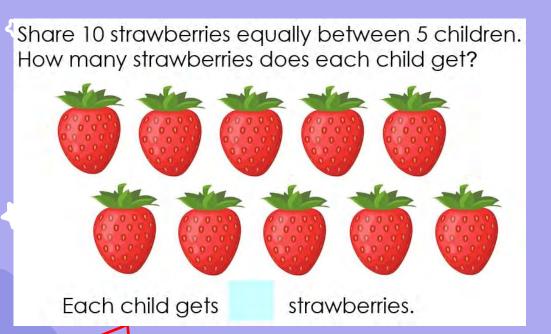




Students are to be able to:

- understand concepts of division
- divide within 20





Sharing concept

Grouping concept

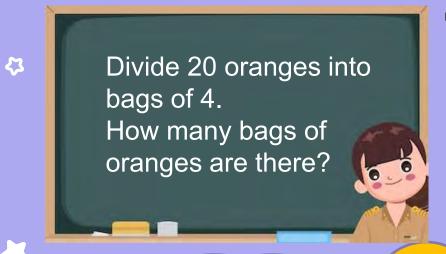


Maths Around Us

Party packs You have 6 friends attending your birthday party. If you have 30 sweets, how many sweets should you give to each friend equally?







Thinking Aloud

What does it mean by 'bags of 4'?

4 + 4 + 4 + 4 + 4 = 20 There are 5 bags.

Ken



What makes you say that Ken is correct?

Jiahao

5 groups of 4 make 20. There are 5 bags.

There are 4 bags. 4 bags of 5 make 20.

Are the kids correct?



Students are to be able to:

- tell time to 5 min
- use of 'am' and 'pm'
- use of abbreviations h and min
- tell duration of one hour / half hour









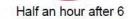
















Maths Around Us







- What time do we have breakfast?
 - What part of the day is breakfast?

An old lady knits with great speed.
30 minutes is all she needs.
She decorates her work with
buttons for half an hour.
At 10:30, she is done.
What time did she start her
knitting?



What do you see in the picture?



What do you think is happening?

What questions do you wonder about the scenario?

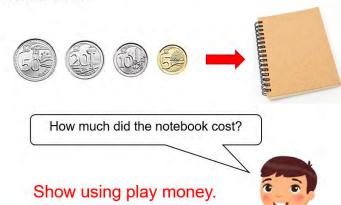
Money

Students are to be able to count amount of money:

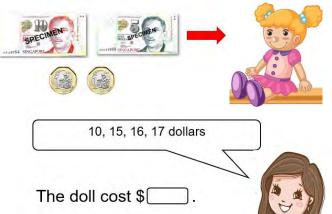
- in cents up to \$1
- in dollars up to \$100



Adam paid this amount of money for a notebook.



Mary paid this amount of money for a doll.











Maths Around Us





Saving money

How much money do you have in your savings?
How much more money do you need to buy a toy?

Thinking Aloud

Who has more money?

43

How do you know?

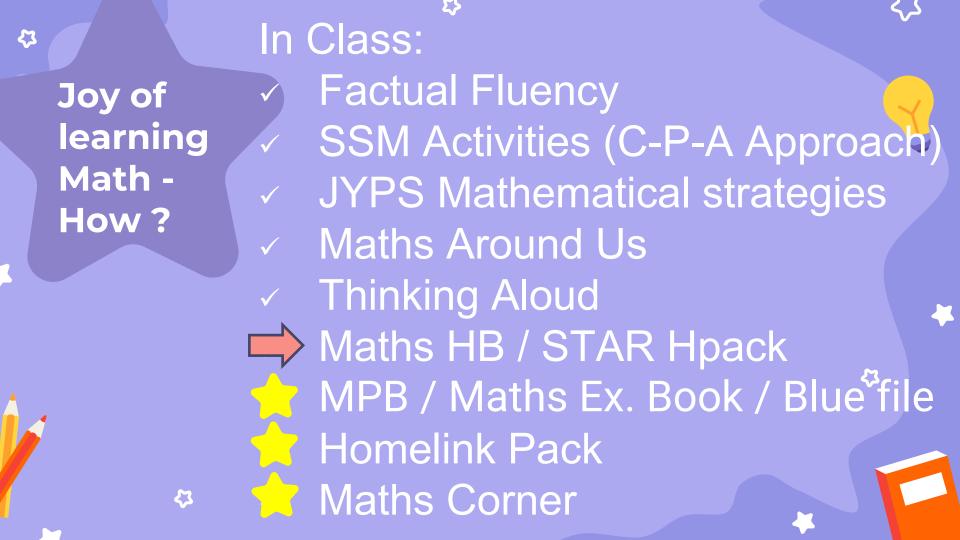
Why do you think the boy says he has more money than the girl? I have 5 coins.
I have more
money than you.

I have 4 coins.
I have more money than you.



Who has more money?
Give me examples why you say that.







Maths HB

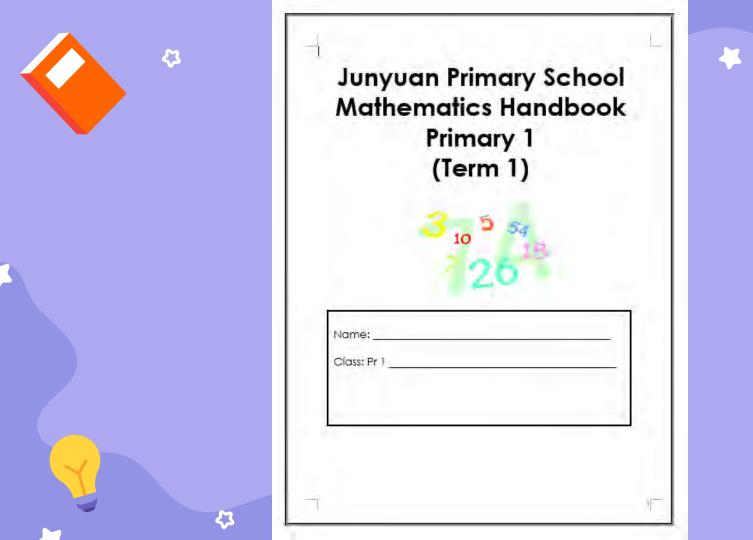
Maths Handbook (HB) is created to help summarise important concepts students need to attain in each topic for each term.

Provides students a form of revision. Some teachers keep the Maths HB in school for students to revise when they have completed their work.

File handbook into the orange file

Orange file is kept in class lockers to be used in class as fillers or kept at home for revision











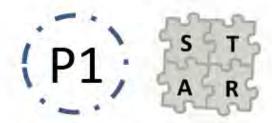


- STAR Heuristics Package (STAR Hpack) is created to teach students the methods to solve word problems.
- Develops students' logical thinking and ability to solve difficult problems.
 - To be filed into blue file at the end of the year



JUNYUAN PRIMARY SCHOOL MATHEMATICS





NAME: ______ CLASS: P1

Starts in term 3

43



See what is given

Think of a plan

Act on the plan

43

Relook and Check



Key Questions to ask when solving word problem

See (What is given?)

- 1. Can I retell the problem in my own words?
- 2. What am I asked to find?
- 3. What are the key words?

Act (What do I need to do?)

- 1. Can I carry out my plan?
- 2. Can I show the steps correctly?
- 3. Can I show the steps clearly?

Think (What is my plan?)

- 1. Have I solved the same type of problem before?
- 2. What method(s) can I use?
- 3. Can I solve a part of the problem first?

Relook (Reflect and Check)

- 1. Does my method make sense?
- 2. How do I know?
- 3. Is my working/diagram/model accurate?
- 4. Have I checked my solution thoroughly using the COURT strategy?



Problem-Solving Approach: STAR What is COURT?

- C COPY; Copy data correctly
- OPERATION; use the correct operation
- U UNIT; write the correct unit in the answer
- R REASONABLENESS; answer is reasonable *
- T TRANSFER; answer correctly onto the answer space





What is **COURT**?

- C COPY: Copy data correctly
- O OPERATION: Use the correct operation
- U UNIT: Write the correct unit in the answer
- R REASONABLENESS of answer
- T TRANSFER answer correctly onto the answer space

How to check your Mathematics solution.

Use COURT to check your working steps

SAMPLE:

Claudia bought a water bottle and a school bag. The water bottle cost \$14 and the school bag cost \$60 more than the water bottle. How much did she pay for the school bag? \$60 -> R J-UNIT-Write correct unit



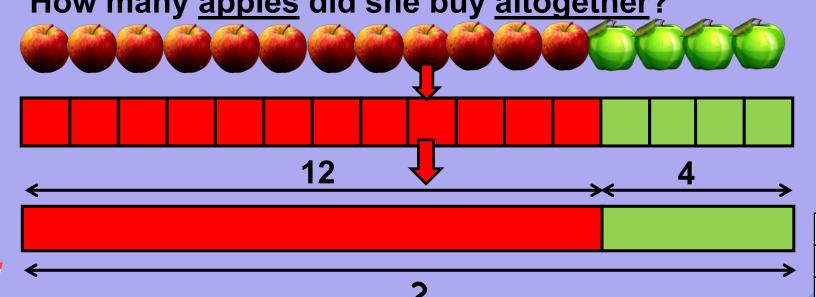


No.	Heuristics
1	Act it out
2	Look for pattern
3	Model Drawing - part - whole



Problem-Solving Approach: STAR Part-Whole Model Problem 1

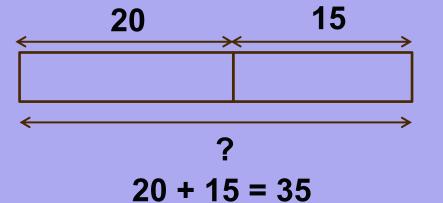
Mother bought 12 red apples and 4 green apples. How many apples did she buy altogether?



 $12 + \overset{?}{4} = \underline{16}$ She bought <u>16</u> apples altogether.

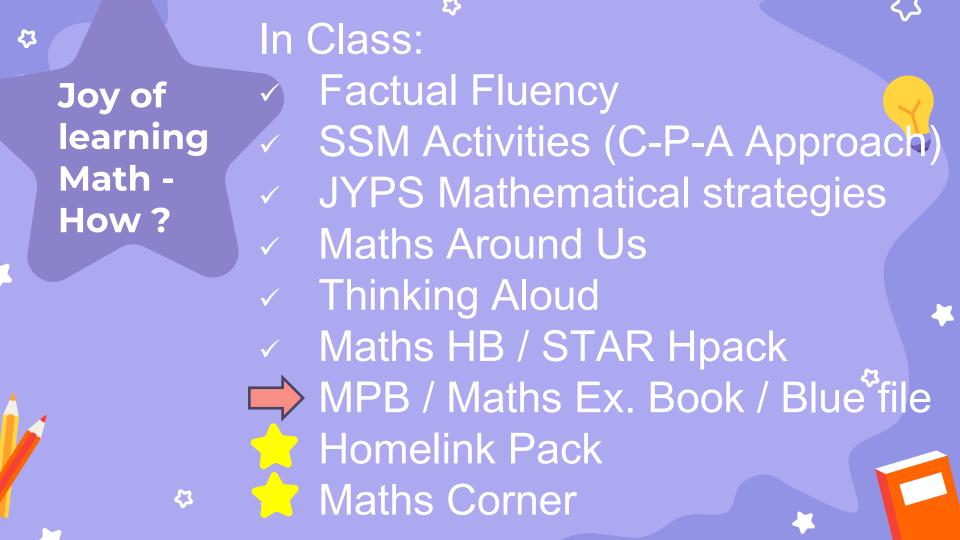
Part-Whole Model Let's try this.

There are 20 red fishes and 15 green fishes in the tank. How many fishes are in the tank altogether?



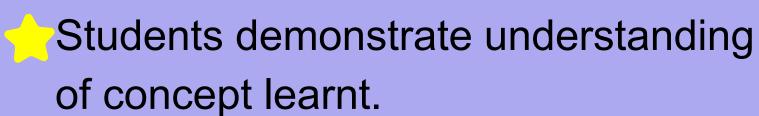
There are <u>35</u> fishes in the tank altogether.



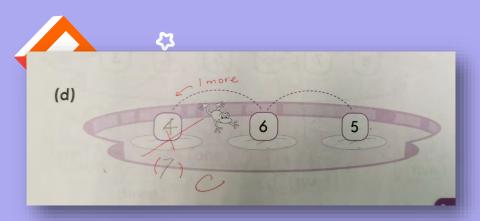


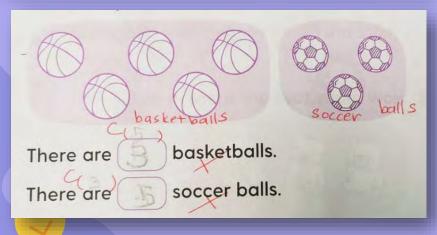


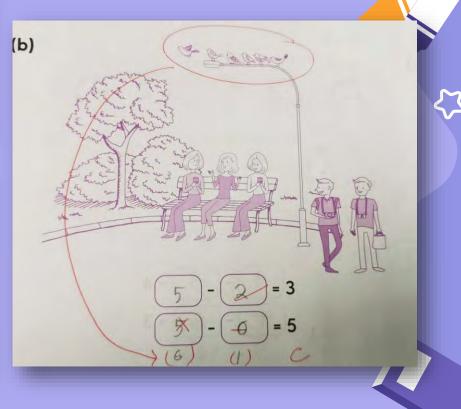
* Practice Book *



- Incomplete correction is indicated either at the front or back of the practice book.
 - Parent's signature after every chapter









Maths Exercise Book



Students practise Maths concepts taught.





27 Jan 22

Vymber bond of 9

O and 9 make 9

I and 8 make 9

2 and 7 make 9

3 and 6 make 9

Make 6 and 6 make 6 1 and 5 make 6 2 and 4 make 6 3 and 3 make 6 4 and 2 make 6 5 and I make 6 6 and 0 make 6



Blue File

- File SSM activity sheets or other Maths worksheets into the blue file
- Termly parent's signature

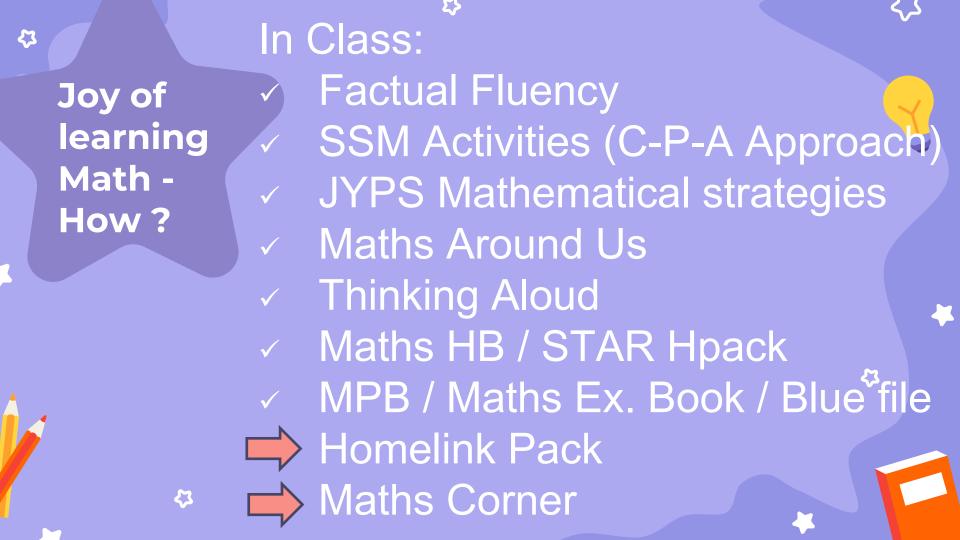
Seme	PRIMARY SC MATICS FIL ester 1 2022	E	
Worksheet		Filed	Teacher's Remarks
Num	bers to 10	-	reduction s Remarks
Activity 1 Comparing Numbers (1)		T	
Acts by 2 Comparing Numbers (2)		~	
Addition & Su	htmato	V	
Addition : Activity Sheet 1	muscuon with	nin 10	
Subtraction : Activity Sheet 1		V	
and oned 1		~	
Activity of	hapes		
Activity Sheet 1		1	
Activity Sheet 2		-	-
Activity Sheet 3			
Ac vity Sheet 5			
	-		
	imburs	-	
Sheet 1 Order of Objects (1)	HIDCIS .		
ctivity heet 2: Order of Objects (2)			
ctivity She Secretary of Activities			
75052			
Signature (Term 1)	-	Jatos de	2 2.00
1		Date: 16 - 6	13-2022

JUNYUAN PRIMARY SCHOOL MATHEMATICS FILE Semester 1 2022

s/n Worksheet Teacher's Remarks Numbers to 10 1 Activity 1 Comparing Numbers (1) 2 Activity 2 - Comparing Numbers (2) Addition & Subtraction within 10 3 Addition : Activity Sheet 1 4 Subtraction : Activity Sheet 1 V Shapes 5 Activity Sheet 1 V 6 Activity Sheet 2 7 Activity Sheet 3 8 Activity Sheet 5 9 Activity Sheet 6 10 Activity Sheet 8 11 Activity Sheet 10 Ordinal Numbers 12 Activity Sheet 1 : Order of Objects (1) 13 Activity Sheet 2 : Order of Objects (2) 14 Activity Sheet 3 : Sequence of Activities

Parent's Signature (Term 1):

Date: 16 - 03 - 2022





* Homelink Pack *

HOMELINK is a package designed to allow students to make use of class manipulatives at home to reinforce the concepts they have learnt in school. Parents are encouraged to play the games or do the activities at home with their children. The manipulatives are kept in their yellow button file before they bring it home. Students also learn to be responsible by keeping the manipulatives properly after use and returning them on time.



HOMELINK 1 – NUMBERS TO 10

Activity 0	Objective	Materials	Instructions	Pictures
1	relate number of dots to corresponding numerals without counting	1 set of dot cards 1 set of number cards	 Number of players: 2 Place all the dot cards and number cards face down. Player takes turn to flip over 1 dot card and 1 number card. If the two cards match, the player keeps the cards. If not the player turn the card face down again. Play continues until all the cards have been paired up. The player with the most cards wins the game. 	Dot Cards Number Cards









Maths Corners *





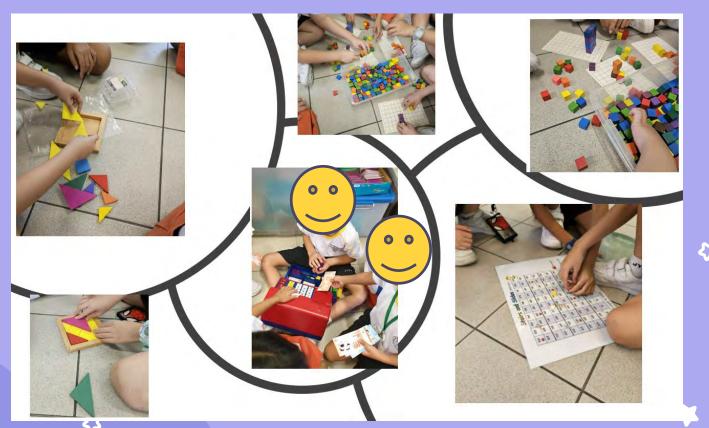






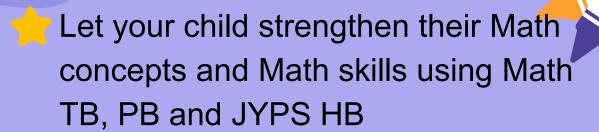


Maths Corners *





Partnership in Action



- Control Do HOMELINK activities with your child
- The Ensure written homework is done
- Ensure SLS and Koobits assignments are completed
- Sign practice book and blue file when brought home and try to go through their corrections





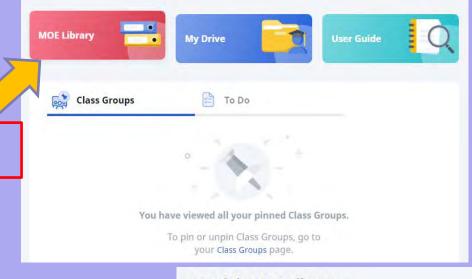
Empower Students to be Self Directed Learners via SLS





43

Student Learning Space (SLS)



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FILTER 3

KooBits

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Latest CP Submitted

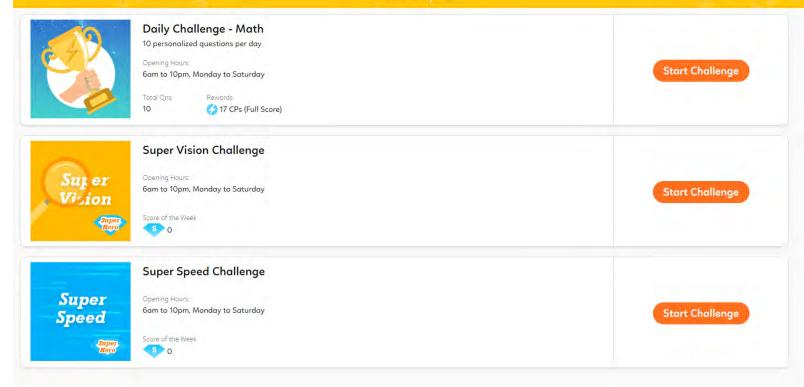
School		Submission Time	
UST Angelicum College	3	10:07, 2023-Mar-29	
Cembo Elementary School	1	10:07, 2023-Mar-29	
Madrasah Wak Tanjong Al-Islamiah	2	10:07, 2023-Mar-29	
West Rembo Elementary School	1	10:07, 2023-Mar-29	
	UST Angelicum College Cembo Elementary School Madrasah Wak Tanjong Al-Islamiah	UST Angelicum College 3 Cembo Elementary School 1 Madrasah Wak Tanjong Al-Islamiah 2	







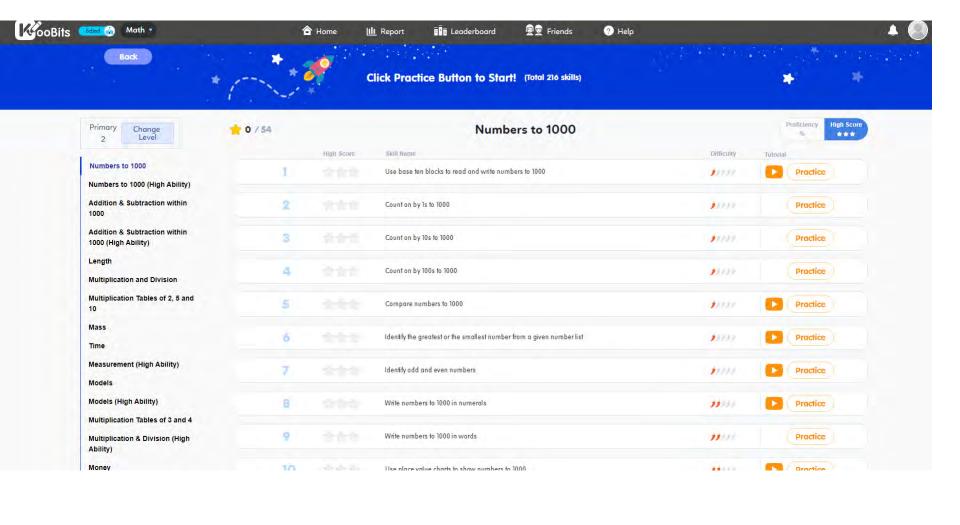
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