

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

- Partnership with parents to help their children to
- discover the joy of learning Mathematics.









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:

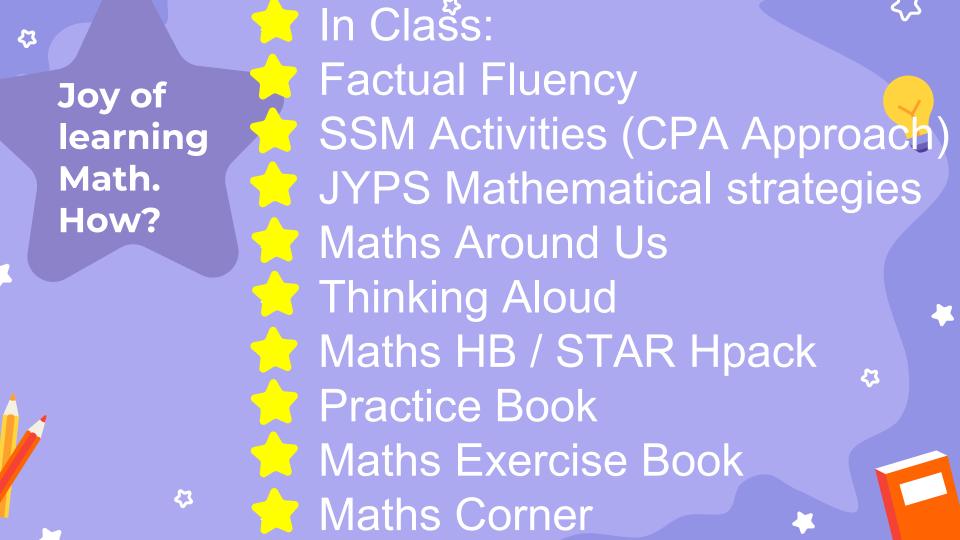
Do not use your phone when you at at their study space as that will be distracting to them. Do your own work or reading.

Take a supportive role, offering encouragement and being there is 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.

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.





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.

Hands-on Activity Sheet

You need a string which is 1 m long.
 Put a < in the correct box.

	Less than 1 m	More than 1 m
My height	THE WAY	
My reach	- 1	
Length of my desk		12
Breadth of my desk		
Height of my desk		
Height of my chair		

You need a string which is 1 m long.

Estimate and then measure the fallowing lengths.

	My estimate	My measure
Length of the whiteboard	about m	aboutm
Length of the noticeboard	about m	aboutm
Length of the teacher's table	about m	about m
Length of the window	about m	aboutm
Width of the door	aboutm	aboutm
Distance from the teacher's table to the door	about m	aboutm









Fractions





- The concept of fractions is introduced at Primary
 2.
- Use everyday examples to make sense of the language and notation of fractions.
- Students should be able to use and understand the meaning of numerator and denominator when writing fractions.

Introduction to Fractions one-half

The whole is cut into 2 equal parts.

Numerator (part of the whole)

1 part



2

Denominator • • • • (total number of equal parts)

2 equal parts

Volume Students to be able to:

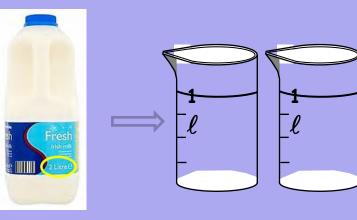
- → Measure volume of the second contract water in litres
- volumes

Using everyday examples to teach volume.





Do not compare the volume of liquid based on level of the water in the containers.



Use of measuring cylinders to measure volume of liquid in litres.



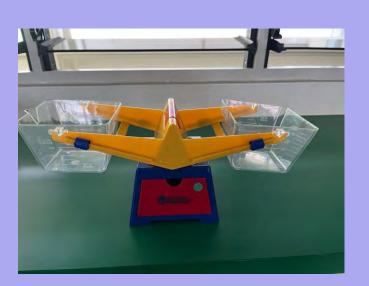
Mass

- Students to be able to:
- Measure in kilograms / grams
- ★ Compare and order masses

Using weighing scales for the topic of Mass

















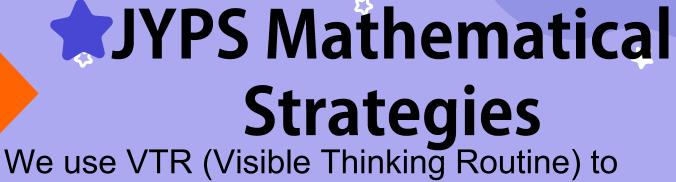












- We use VTR (Visible Thinking Routine) to uncover students' thinking about thinking (Metacognition)
- It helps support lifelong learning
- It develops students' awareness of their own thinking
- (J. B. Biggs, 1987)
- It gives teachers an insight of students' misconceptions so teachers can address misconceptions accordingly



Visible Thinking Routine (VTR)

Making thinking visible through...

- See Think Wonder
- Chalk Talk
- I 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

What makes you say that?

Look at the following.

Do you measure the mass of each of them in kilograms or grams? Why?

Write the missing unit, g or kg for each of them.

























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.



Thinking Aloud







I wonder how many sets should I buy for a party of 30?



Thinking Aloud

from Junyuan Primary School, 2 Tampines Stree... ¥ Groceries **Y**¶ Restaurants **♥** Coffee Q More to Tampines West SPC Tampines Sri Lakshmi **Tampines West** Narayana Resta Community Club 7 min (600 m) & Amazing Deals via Tampines Street 91 and Tampines Ave 4 园 Mostly flat Junyuan Primary School O Kraft Kitchen Zi Zai Vegetarian Use caution-walking directions may not always (Tampines) Vegetarian · \$\$ reflect real-world conditions **★ 7 min** Junyuan Primary School 2 Tampines Street 91, Singapore 528906 Music Dreamz School Head southeast on Tampines Street 91 350 m Tampines West Block 933 **HDB** Tampines Turn left onto Tampines Ave 4 Tampines GreenGem 160 m Tampines Ave 1 Slight left onto Tampines Ave 1 48 m

https://www.google.com.sg/maps/dir/Junyuan+Primary+School,+2+Tampines+Street+91,+Singapore+528906/Tampines+West+MR T+Station/@1.3464705,103.9371541,17z/am=t/data=!4m14!4m13!1m5!1m1!1s0x31da3d14ee960ac3:0x212d15b72926a1c9!2m2!1 d103.939981!2d1.3479731!1m5!1m1!1s0x31da3d1545bc6f07:0xdba5666c12a8354a!2m2!1d103.9382061!2d1.3455617!3e2

Tam



*Maths Around Us

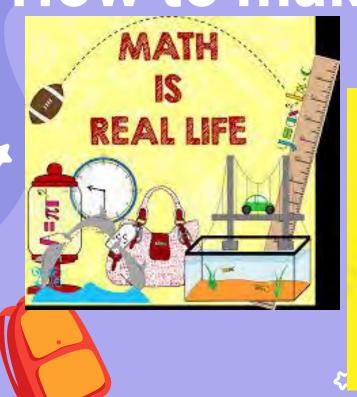


Provides opportunity for students to articulate their understanding on how the concept is used in real world context





How to make Maths come alive?



Math is Everywhere!





Maths Around Us

Tom took photos of different weighing scales. What do you think they are used for?







Time

Maths Around Us



source : sgtrains.com





source: https://www.gv.com.sg/GVMovies

How many hours and minutes are there in 94 minutes?



Money

Maths Around Us











\$2.90

Freshtrop Green Seedless Grapes 500g

\$1.55

Pasar Sweet Corn

2 per pack



https://www.liveyoungandwell.com/reviews/cheap-grocery-singapore/https://www.fairprice.com.sg/





Money

Where else can we get the children to learn the topic on Money in our daily lives?

What math skills will we be teaching them?

classpoint.app





Let's take a short break!







Knowing the concept of each Math topic well, will help your child to enjoy their Math learning.

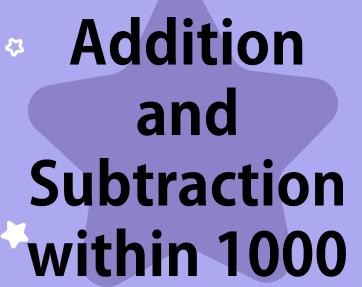










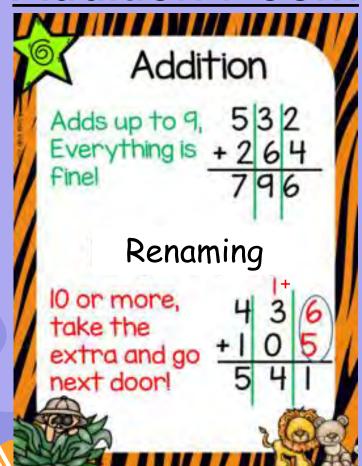


Students to be able to add and subtract:

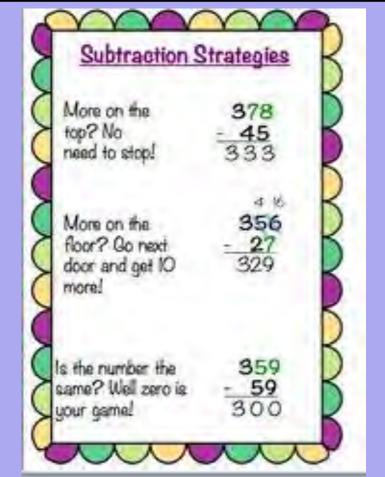
- up to 3-digit numbers
- using algorithm

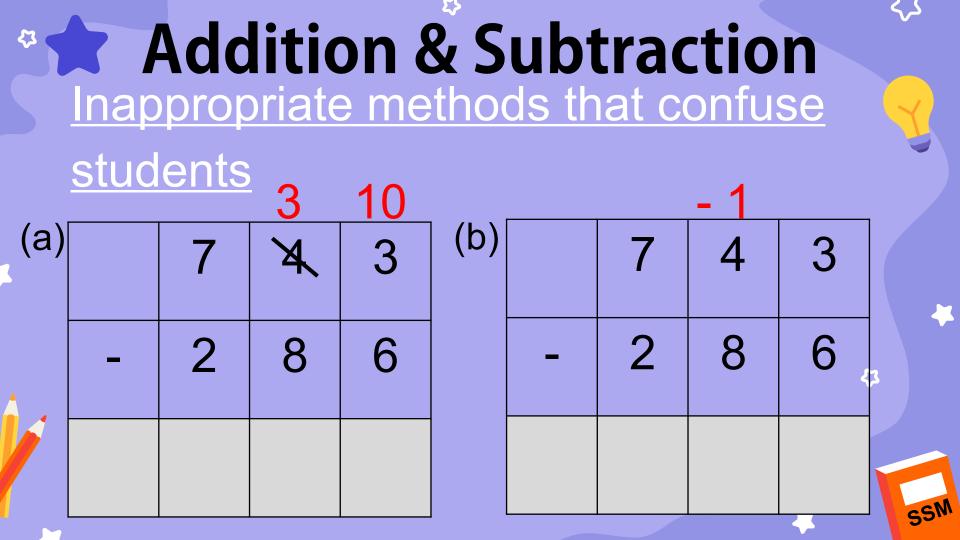


Addition Poem



Subtraction Poem





Multiplication Tables of 2, 5 and 10

Students to be able to build multiplication table of:

→2, 3, 4, 5 and 10

Interactive Foldables









Problem-Solving Approach: STAR

Model Drawing

Comparison Model



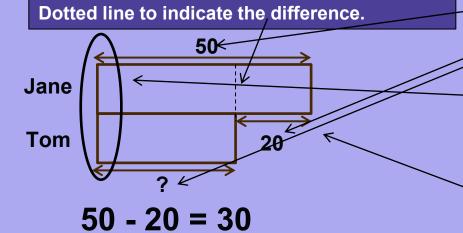
Problem-Solving Approach: STAR Comparison Model

Jane has 50 stickers.

Tom has 20 stickers fewer than her.

How many stickers does Tom have?

Use the given numbers to label the models and use the question mark to represent the number that you need to find.



Tom has 30 stickers.

Models to have a common starting line.

Unit with greater value is longer.
Unit with smaller value is shorter.

С	√
0	✓
U	✓
R	✓
Т	√

2-Step Word Problems

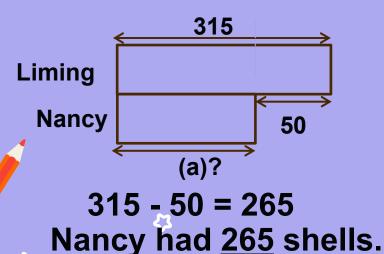
Model Drawing

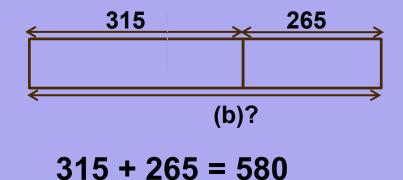
Break down models for introduction at P2

Liming had 315 shells.

Nancy had 50 shells fewer than Liming.

How many shells did they have altogether?





They had 580 shells altogether.

2-Step Word Problems

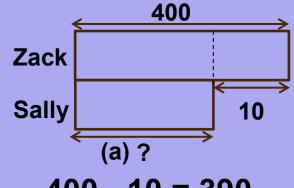
Model Drawing

Break down models for introduction at P2

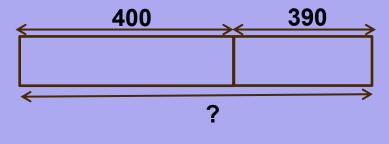
Zack sold 400 eggs.

He sold 10 more eggs than Sally.

How many eggs did they sell altogether?



400 - 10 = 390Sally sold 390 eggs.



400 + 390 = 790

They sold 790 eggs altogether.



Multiplication Word Problems



Multiplication





Multiplication Word Problems

<u>GET</u>

Applicable when students are faced with a word problem involving multiplication / division

- **G** Number of **G**roups which is represented by the number of boxes.
- E Number of items in Each group which is represented by the value of each box.
- T Total value of all boxes.





Multiplication Word Problems

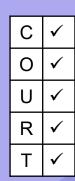
Sherin bought 6 bottles of milk.

Each bottle cost \$5.

How much did she pay altogether?

G E J

6 x \$5 = \$30 She paid <u>\$30</u> altogether.







Division Word Problems

Jane had 32 stickers.

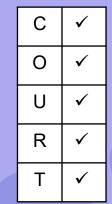
She pasted 8 stickers on each page of her album.

How many pages did she paste her stickers on?

GET

$$32 \div 8 = 4 \div \times$$

She pasted her stickers on 4 pages.





Division Word Problems

Let's try this.

There are 30 flowers to be planted into 6 pots.

How many flowers are there in each pot?

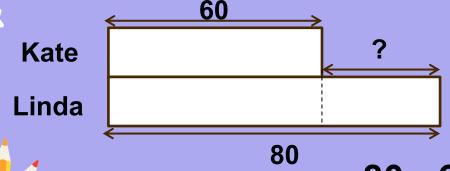


Model Drawing Comparison Model

Example 1

Kate baked 60 cakes. Linda baked 80 cakes.

How many more cakes did Linda bake than Kate?



80 - 60 = 20

Linda baked 20 more cakes than Kate.



Let's practise together!

Example 4 Yanlin has 24 chocolate bars.

She puts 4 chocolate bars into the goodie bags equally.

How many goodie bags will she need?

? 4 24

GET

 \div \times

She will need 6 goodie bags.

 $24 \div 4 = 6$







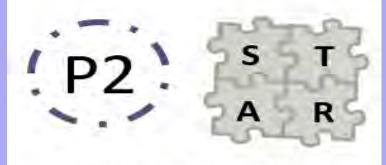


Problem-Solving Approach: STAR

JUNYUAN PRIMARY SCHOOL MATHEMATICS



SEE ~ THINK ~ ACT ~ RELOOK



SEMESTER 1 - PUPIL'S COPY

NAME:

Starts in term 2

43



Problem-Solving Approach: STAR

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



Problem-Solving Approach: STAR

No.	Heuristics
1	Whole Numbers – Act it out
2	Whole Numbers – Working backward
3	Whole Numbers – Look for pattern



Problem-Solving Approach: STAR

The figure below is made up of 12 sticks. Move 4 sticks to get only 3 triangles.



See (What is given?)

Act it out

Think (What is my plan?)

Can I act it out?
Can I look for a pattern?
Can I draw a part-whole model?
Can I draw a comparison model?

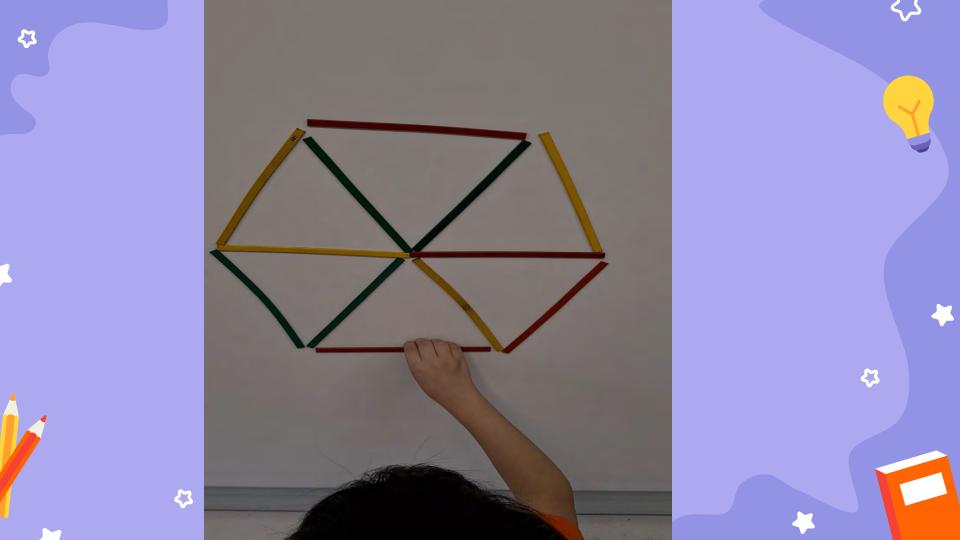
Act (What do I need to do?)

Relook (Reflect and Check)

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U
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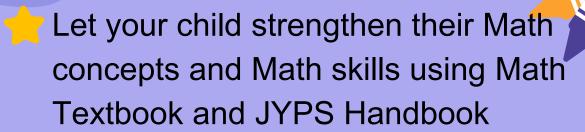


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Partnership in action





Character Tensure 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



How to understand the Math concepts better

What Have I Learnt?

Ount to 20.

11	12	13	14	15
eleven	twelve	thirteen	fourteen	fifteen
	*****			:::::
16	17	18	19	20
sixteen	seventeen	eighteen	nineteen	twenty

Count by making a group of 10 first.



Compare and order numbers.



There are 8 fewer yellow cubes than purple cubes.
There are 8 more purple cubes than yellow cubes.









The greatest number is 19.
The smallest number is 7.

I arrange the numbers beginning with the greatest: 19, 15, 10, 7.

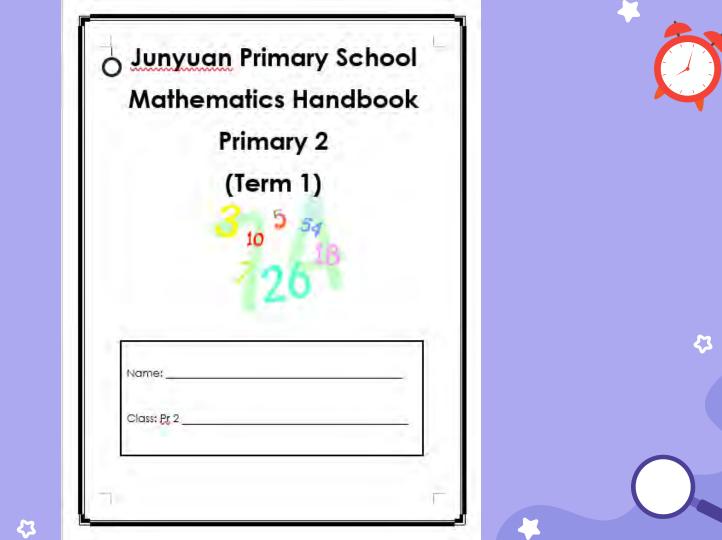


I arrange the numbers beginning with the smallest: 7, 10, 15, 19.











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 to be kept at home for revision/ in locker as fillers to do in class.



Blue File

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

THE STATE OF THE S	JUNYUAN PRIMARY S MATHEMATICS F Semester 1 202		
	Worksheet	Filed	Teacher's Remarks
	Numbers to 10		reacher's Remarks
	Activity 1 - Comparing Numbers (1)	-	
7	Activity 2 : Comparing Numbers (2)	V	
		V	
	Addition & Subtraction w	rithin 10	
	Addition : Activity Sheet 1		
	Subtraction : Activity Sheet 1	V	
27. 24		~	
Class). Name:	Shapes		
	Activity Sheet 1		
	Activity Sheet 2	V	
	Activity Sheet 3		
	Ac vity Sheet 5		
School: Subset	ctivity she to condend of Objects (1) ctivity she to condend of Objects (2) ctivity she to condend of Objects (2) ctivity she to condend of Objects (2)		
司		Date: _/6 - a	
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JUNYUAN PRIMARY SCHOOL MATHEMATICS FILE Semester 1 2022

Name: K

	Worksheet	Filed	Teacher's Remarks
_	Numbers t		Teacher's Remarks
1	Activity 1 : Comparing Numbers (1)	0 10	
2	Activity 2 C	~	
	Activity 2 - Comparing Numbers (2)	V	
3	Addition & Subtract	ion within 10	
	Addition : Activity Sheet 1		
4	Subtraction : Activity Sheet 1	V	
T	Single 1	V	
5	Shaper		
5	Activity Sheet 1		
6	Activity Sheet 2	V	
7			
	Activity Sheet 3		
8	Activity Sheet 5		
9	Activity Sheet 6		
10	Activity Sheet 8		
11	Activity Sheet 10		
16	Ordinal Nur	nbers	A STATE OF STATE OF
2	Activity Sheet 1 : Order of Objects (1)		
3	Activity Sheet 2 : Order of Objects (2)		
1	Activity Sheet 3 : Sequence of Activities		

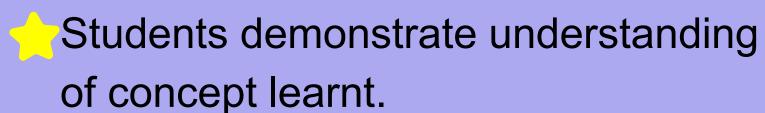
Parent's Signature (Term 1):

Date: 16-03-2022





* Practice Book *

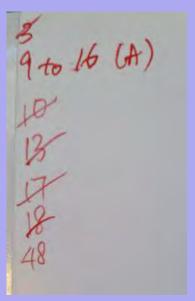


- Incomplete correction is indicated either at the front or back of the practice book.
 - Parent's signature after every chapter



Correction tracking

1	(2)	3	4	- 5	6	(W)	9	- 0	K
35	111	15	14	15	(14)	-			-
huster i	- Addit	ien and 5	alstractio	e Within	1000				
hove no	red my ca	sids work	For	nent's sig	mature				
17	1/9	59	205	21	22-	23	24	25	26
25	28	29	(30)	31	32	-33	34	(2)	76
37	38	39	40	(31)	(D)	45	44	45	706
(40)	/46	49	50	51	- 52	53	(54)	151	-
35	50 3 - Lengt	(19)	(56)	119	60				
35 Chapter	3 - Lengt	(19)	(56)	-	60				
55 Chapter I have no	3 - Lengt	1	(56)	19	60	67	-50	60	70
Chapter Elegene 61 Chapter I have no	3 - Length feet my ch 62 4 - Multi feet my ch	the sale of the sa	54 and Divis	nert is eight	65 posture				
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Students practise Maths concepts taught.

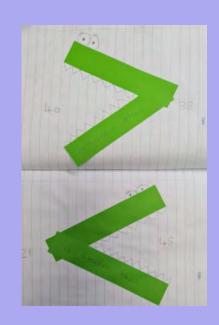


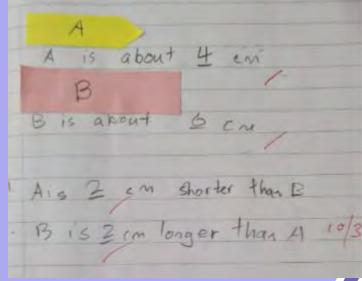


Maths Exercise Book



1	2	15 Hortem	feether	5	6 fire	7		timites.	10
11	12	13	14	25	16	17	18	19	20
21	32	33	34	35	36	37	38	39	30
41 terry 31	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100











* 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.



Topic : Multiplication Tables of 2,5 & 10 (Individual student pack)

Activity	Objective	Materials	Instructions	Pictures
	To remember the Multiplication and Division Tables well	Multiplication and Division cards	 Number of players: 2 Player 1 shows the Multiplication Tables card to Player 2. Player 2 to give his/her answer for the Multiplication or Division equation shown. If the answer is correct, put the card faced down. For wrong answer, faced up At the end of the session, count the numbers of cards faced down (the coloured side of the card). Record the total number of the cards. Take note of the equations faced up and learn the Multiplication tables again. Repeat the process for Player 2. 	9 x 5 18 ÷ 2





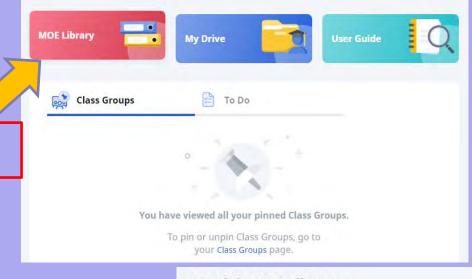


Empower Students to be Self Directed Learners via SLS



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Student Learning Space (SLS)



Search in MOE Library



GUIDED SEARCH

FILTER 3

KooBits

member.koobits.com

Latest CP Submitted

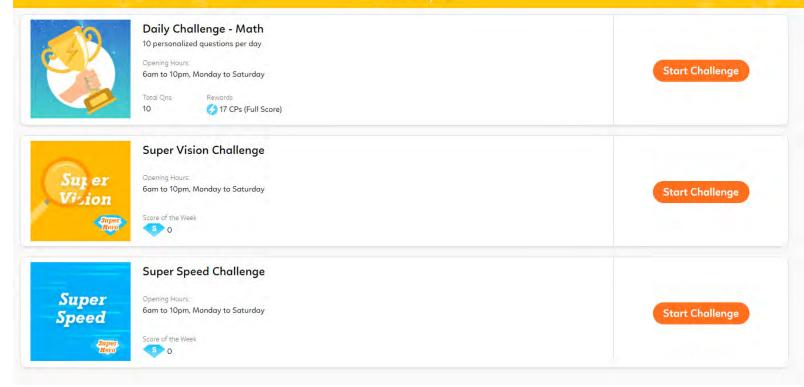
School	Latest CP	Submission Time
UST Angelicum College	3	10:07, 2023-Mar-29
Cembo Elementary School	1	10:07, 2023-Mar-29
Madrasah Wak Tanjong Al-Islamiah	2	10:07, 2023-Mar-29
West Rembo Elementary School	1	10:07, 2023-Mar-29
	UST Angelicum College Cembo Elementary School Madrasah Wak Tanjong Al-Islamiah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







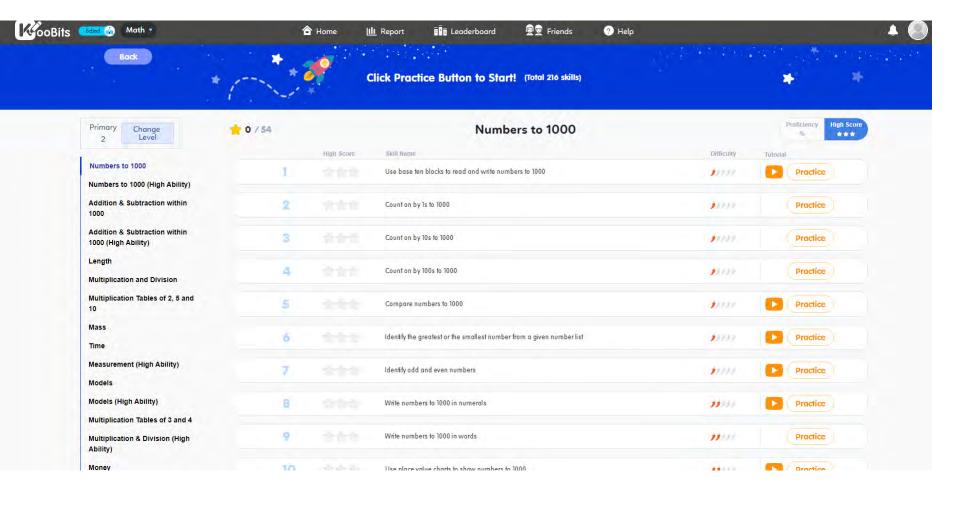
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	UST Angelicum College Cembo Elementary School Madrasah Wak Tanjong Al-Islamiah	UST Angelicum College 3 Cembo Elementary School 1 Madrasah Wak Tanjong Al-Islamiah 2





