

# Mathematics Sharing for Primary 5 and Primary 6 Parents

6 February 2025


We will be starting the session shortly.

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# Primary 5 & Primary 6 Assessment and Curriculum Sharing

Mathematics

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Mathematics Curriculum Framework

Assessment Matters for Pri 5 and 6 Mathematics

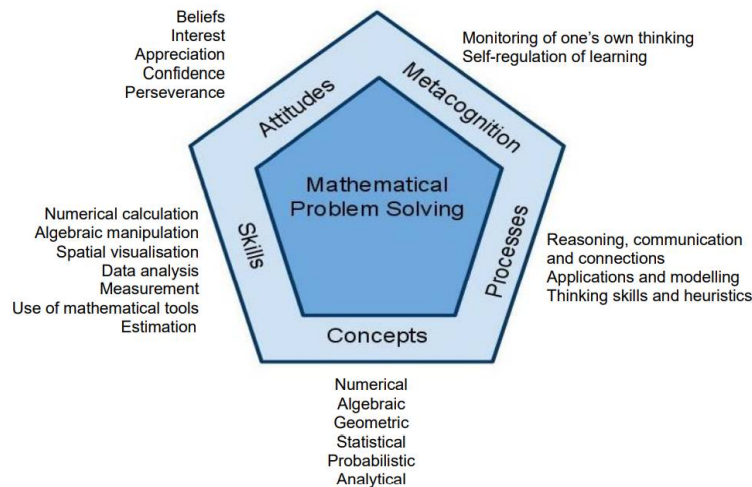
Learning Mathematics at Rivervale

Strategies to support students in learning Mathematics



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# Mathematics Curriculum Framework



**Attitudes**

- Beliefs
- Interest
- Appreciation
- Confidence
- Perseverance

**Metacognition**

- Monitoring of one's own thinking
- Self-regulation of learning

**Processes**

- Reasoning, communication and connections
- Applications and modelling
- Thinking skills and heuristics

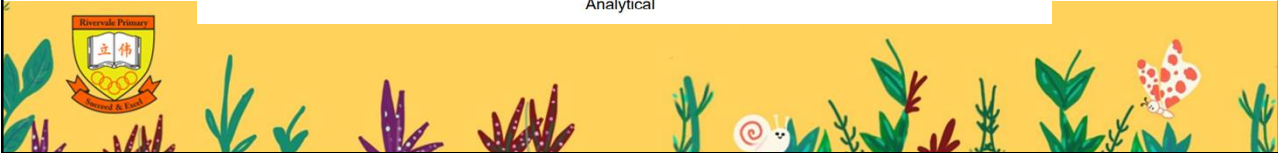
**Concepts**

- Numerical
- Algebraic
- Geometric
- Statistical
- Probabilistic
- Analytical

**Skills**

- Numerical calculation
- Algebraic manipulation
- Spatial visualisation
- Data analysis
- Measurement
- Use of mathematical tools
- Estimation

**Mathematical Problem Solving**



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# Assessment Matters



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# Assessment Matters for **Standard** Mathematics



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## Assessment Format for P6 **Standard Mathematics**

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1	A	Multiple-choice	10	1	10	1 h
			5	2	10	
	B	Short-answer	5	1	5	
			10	2	20	
2		Short-answer	5	2	10	1 h 30 min
		Structured/ Long-answer	12	3, 4 or 5	45	
Total			47	-	100	2 h 30 min



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## Assessment Format for P5 **Standard Mathematics**

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1	A	Multiple-choice	10	1	10	1 h 10 min
			8	2	16	
	B	Short-answer	12	2	24	
2		Short-answer	5	2	10	1 h 20 min
		Structured/ Long-answer	10	3, 4 or 5	40	
Total			45	-	100	2 h 30 min



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# Assessment Matters for Foundation Mathematics



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## Assessment Format for P6 Foundation Mathematics

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1	A	Multiple-choice	10	1	10	1 h
			10	2	20	
	B	Short-answer	10	2	20	
2		Short-answer	10	2	20	1 h
		Structured	6	3 or 4	20	
Total			46	-	90	2 h



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## Assessment Format for P5 **Foundation** Mathematics

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1	A	Multiple-choice	10	1	10	1 h
			10	2	20	
	B	Short-answer	8	2	16	
2		Short-answer	10	2	20	45 min
		Structured	4	3 or 4	14	
Total			42	-	80	1 h 45 min



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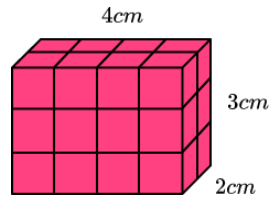
## Learning Mathematics @ Rivervale



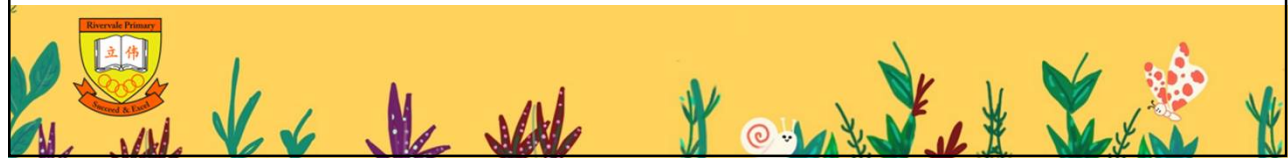
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## Concrete-Pictorial-Abstract (C-P-A) Approach



A rectangular tank has a square base with sides 6 m each. The height of the tank is 9 m. Find the capacity of the tank.



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<div style="font-size: 48px; font-weight: bold; margin: 0;">S</div>	<div style="font-size: 48px; font-weight: bold; margin: 0;">T</div>	<div style="font-size: 48px; font-weight: bold; margin: 0;">A</div>	<div style="font-size: 48px; font-weight: bold; margin: 0;">R</div>
<p><b><u>Study the problem</u></b> <b>(CUB)</b></p> <ul style="list-style-type: none"> <li>• <b>Circle</b> the numbers</li> <li>• <b>Underline</b> the keywords</li> <li>• <b>Box up</b> the question</li> </ul>	<p><b><u>Think of a strategy</u></b></p> <ul style="list-style-type: none"> <li>• Draw models</li> <li>• Draw diagrams</li> <li>• Draw a table</li> <li>• Listing</li> <li>• Guess and Check</li> <li>• Act it out</li> <li>• Work backwards</li> <li>• Simplify the problem</li> </ul>	<p><b><u>Act out the strategy</u></b></p>	<p><b><u>Review the solution</u></b> <b>(CURT)</b></p> <ul style="list-style-type: none"> <li>• Calculations</li> <li>• Units</li> <li>• Reasonable</li> <li>• Transference</li> </ul>

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# How to support your child in learning Mathematics



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## What Can I Do As A Parent?

- Active involvement in child's school work

Ask your child to talk about and teach you math.

Use math with your child in daily life.

Communicate with your child's teacher.

Promote a positive attitude to math. Develop a growth mindset.

Ensure that homework is completed neatly and all doubts clarified.



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## Strategies to support students in learning Mathematics

- 1 Master basic arithmetic skills – **Mathematical Fluency**
- 2 Practise, practise and practise (and check): Set time limit
- 3 Review mistakes and LEARN from mistakes:
  - misread, transfer error,
  - computational/precision errors,
  - conceptual understanding

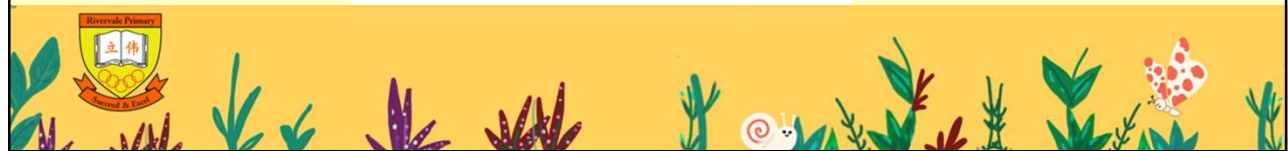
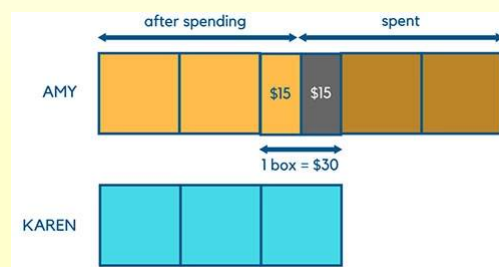
□ E.g.: look through Topical Review worksheets, workbook




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## How to study Mathematics?

- 4 Allow students to struggle in problem solving, focusing on model drawing as one of the key tools.




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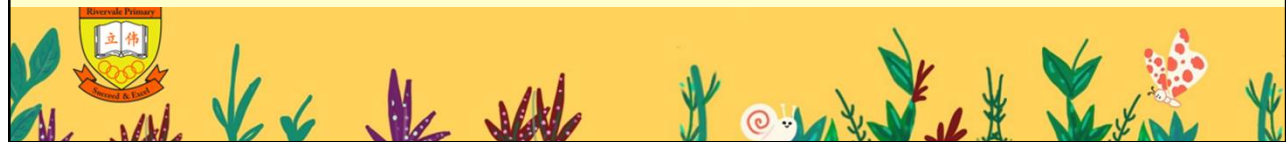
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# Communicating effectively in Mathematics



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# Presentation of solutions:

## Arrows for Percentage and Rate

✓ Use arrows to express workings when doing questions involving percentage and fractions.

$$20 \% = 80 \quad \times$$

$$20 \% = 0.2 = \frac{20}{100}$$

Right

$$20 \% \rightarrow 80$$



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