

Sec 1 Academic Talk (Mathematics)

5 Jan 2018



AGENDA

- 1. Transition from Primary 6 to Secondary 1
- 2. Mathematics Syllabus
- 3. KCPSS Math Programmes
- 4. KCPSS Math Assessment
- 5. KCPSS Math Homework Policy



1. TRANSITION FROM PRIMARY 6 TO SECONDARY 1





A man is 3 times as old as his son. In 10 years' time, the sum of their ages will be 76. How old was the man when his son was born?



100 grams of cheese cost 99 cents.

Find the number of grams of cheese that can be bought for \$2



x grams of cheese cost 99 cents.

Find the number of grams of cheese that can be bought for y dollars.

['O' level Paper]



PSLE Exam Format

Multiple-choice Question
Short-answer Question
Structured / Long-answer Question



'O' and 'N' level

Multiple-choice Question

Short-answer Question
Structured / Long-answer Question



'O' and 'N' level

Need for full working and proper presentation

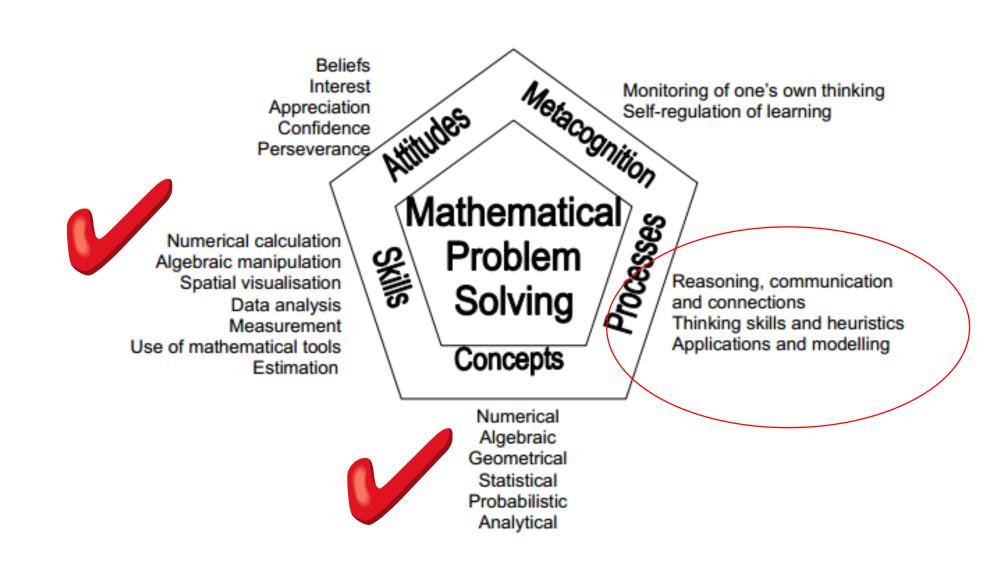
- Self-Practice Book
- Textbook Examples



2. MATHEMATICS SYLLABUS



Singapore Mathematics Framework



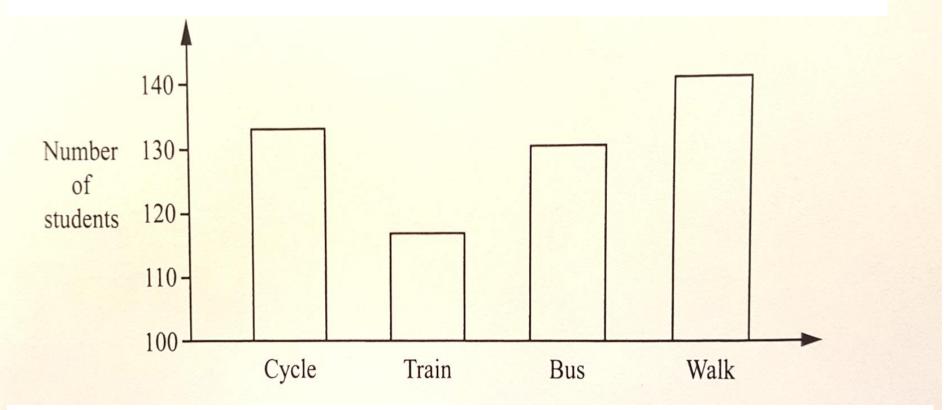
Strengthening Maths Processes and critical thinking

Processes

- Reasoning
- Communication
- Connection



The bar chart shows how some students travelled to school.



John says, "The number of students cycling to school is about twice the number travelling by train.

Is John correct? Explain your answer.

Influencing Teaching and Learning in the classroom



- Learning Experiences
- Problems in real-world contexts

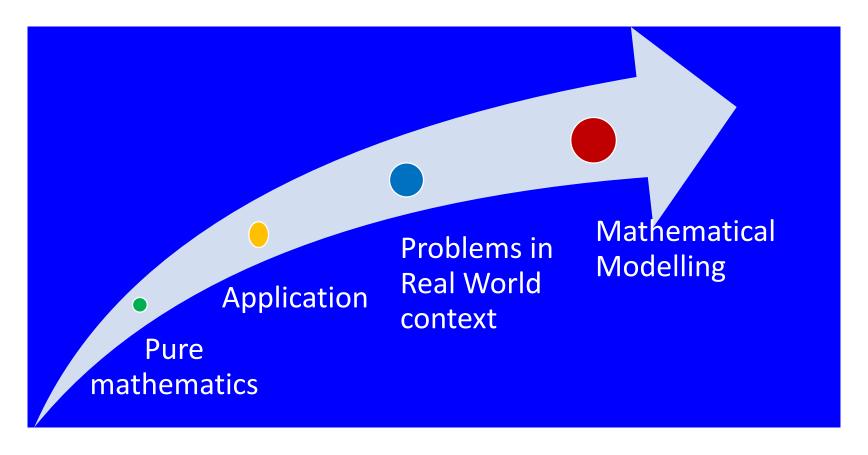


1. Learning Experiences

- ✓ Discuss examples of foreign exchange rates, interest rates etc.
- Examine bills and receipts etc to find examples of uses of percentages, eg.
 discount, service charge, GST
- ✓ Using AlgeDisc and AlgeTools and other manipulatives



- 2. Problems in real-world contexts
- 3. Mathematical Modelling



2016 'O' level Question



LOCAL MAIL RATES (inclusive of 7% GST)

Weight Step Up To	Standard Mail	Non-Standard Mail	
7,000	Regular	1	
20 g	\$0.30	\$0.60	
40 g	\$0.37		
	Large		
100 g	\$0.60	\$0.90	
250 g	\$0.90	\$1.15	
500 g	\$1.15	\$1.70	
1 kg	\$2.55		
2kg	\$3.35		

Standard regular mail (C5, C6 and DL size envelope) Standard large mail (up to C4 size envelope)

Stationery supplies (costs excluding 7% GST)				
ltem	Description	\$3.90 \$3.50 \$3.30		
A4 paper	White printer paper Pack of 500 sheets Bulk price (10+ packs) Bulk price (30+ packs)			
Toner cartridges	Black printing Average yield 1300 pages	\$147.00		
	Colour printing Cyan/yellow/magenta cartridges Average yield 1000 pages	\$151.00		
O5 envelopes White self-seal envelopes Pack of 10 Pack of 500		\$1.50 \$34.00		

2016 'O' level Question

10(e)

Suggest a sensible amount for him to charge a one-year subscription to the newsletter. Justify the decision you make and show your calculations clearly.



3. KCPSS MATH PROGRAMMES

- Activity-Based lessons, ICT lessons
- Various Competitions
 - Singapore and Asian Schools Math Olympiads, Rubik cube, Sudoku etc.
- Post Exam Activity
 - Mathematical Modelling
- Mathelist (for Sec 1 Low Progress students)



Online Math Portal

- Self-Revision (Interactive Tools)
- Online Quizzes



4. KCPSS MATH ASSESSMENT

1 Express / 1Normal Academic

Semester 1 (40%)		Semester 2 (60%)	
CA1	SA1 (25%)	CA2	SA2 (45%)
(15%)		(15%)	
<u>Test (15%)</u>	Mid-Year Exam	<u>Tests (10%)</u>	End-Of-Year
Test 1 - 30m		Test 4 – 30m	Exam
Test 2 - 30m		Test 5 – 30m	
Test 3 – 30m			
		<u>AA (5%)</u>	
		Average of all Pop	
		Quizzes -20m	
		Project – 20m	

5. KCPSS MATH HOMEWORK POLICY

- At least one piece of homework for submission per week
- **Online Quizzes**
- File Check in Term 2
- Holiday Homework



Sec 1 Math Teachers









1Faith & 1Love Ms Thong Wei Qi

1Joy Mr Wilson Sitoh

1Peace Mrs Teo Shu Yen

1Peace Mr Lee Chong Min

Sec 1 Math Teachers



1Grace Mr Brian Ho



1Hope Ms Jaclyn Lee

THANK YOU

