

#### Mathematics in the 3-6 Classroom at Parramatta West Public School

Wednesday 18<sup>th</sup> May, 2016 – Parent Meeting

## **EnVision**

- Deeper conceptual understanding and higher proficiency in maths.
- Topic-driven teaching and learning program aligned with the Australian Curriculum: mathematics content and proficiency strands.
- Print and digital topic-based components.
- Differentiated teaching and learning strategies



#### **Components of EnVision program**

- Teacher resources worksheets, guided questioning
- Visual Learning Bridges
- ◆Videos Topic openers

#### ♦IWB tools

- ♦Game cards
- ◆Quiz cards
- Strategy cards
- Investigation cards
- Digital learning cards

Understand it! It was a starting of the G	Finding Elapsed Time how can you find how much time wo events? Silen rode along a bike track. He started at 8 t 1:25 pm. How long did Gien ride?	passes between	One Way Break the elapsed time into parts. 12 h 00 min -8 h 05 min 3 h 55 min + 1 h 25 min ↓ h 80 min or 5 h 20 min ← Total elapsed time	Another Way Use mental maths to find the elapsed time. Count forward from the starting time for each unit. Count the number of hours from 8:05 am to 1:05 pm: 5 hours. Count the number of minutes from 1:05 to 1:25: 20 minutes.
The second secon	9 you M Since 15 min < 25 min and 20 s < 55 s,	1:25 pm is the elapsed time. So, 5 h 74 min 80 s - <u>4 h 25 min 55 s</u> 1 h 49 min 25 s Elapsed time: 1 h 49 min 25 s	Glen rode for 5 hours 20 minutes.	20 minutes.

# What does maths look like in the classroom?

#### Components of a maths program:

- Daily problem solving
- Explicit teaching of maths concepts
- Differentiated activities
- Hands-on learning
- Games-based learning
- Online learning
- Manga High



## **Problem Solving**

All classes engage in daily problem solving.

- Application of maths skills, strategies and content
- Reading comprehension
   + mathematical understanding





## Assessment

# Assessment occurs daily in the maths classroom, in many different ways.

Formative assessment

- Pre and post assessments on topics / concepts
- Daily observations

Summative assessments



# How to look at pre and post assessments at home

 Sit with your child to talk about the assessment and discuss their learning.

Ask questions.



### **Pre and Post Assessments**

3/8	6/8
Topic 3 Subtraction Concepts and Strategies 1	Topic 3 Subtraction Concepts and Strategies 1 Name
Name	Name
Concept 1: Identifying the Missing Part	Concept 1: Identifying the Mission Part
I Identify the missing number to complete the number sentence. Shode the correct access	contribution of the missing number to complete the number sentence.
<b>a</b> $13 - \Delta = 5$ <b>b</b> $31 - \Delta = 26$ <b>c</b> $\Delta - 17 = 0$	$a 23 - \Delta = 7$ b $41 - \Delta = 26$ c $\Delta - 7 = 106$
07 08 011	
0 8 / 0 6 0 <sup>10</sup> 3/3	O 16 O 103
	● 17 x ● 15 √ ○ 99
04	0 9 0 67 0 100
2 On a number line, show how you would work out: $42 - \Delta = 27$ .	23-7=241-26=15 1/1
COTVIDE 5t OI	2 On a number line, show how you would work out: $103 - \Delta = 35$ .
27 42	$\overline{5} - \sqrt{30} \rightarrow$
5/ 42-25=27×	103
3 What is the missing number in this number sentence? Explain your dristron 012	103-67 Sundain upur answer. 2/7
$81 - \Delta = 17$	3 What is the missing number in this number sentence? Explain your answer.
OB It's because it you see there	$\Delta - 94 = 15$
15 land 8, 8-1=7 1-7= you cant	The D=109!113 because 117 1
4 Dale wants to buy a new computer game that costs \$65. He has \$48. How much	15-109. That is how to do it
more does Dale need to save? Explain your working out. 017	1 1 1 - INCIV
He needs to save \$23 more	So the a think a series have the had completed 32 1/2
because \$65 minute 48-	4 Georgia had to swim 55 laps at training. After one hour she had completed 32. How many laps does Georgia need to swim? Show your answer as an addition
1735 Male TO-	and subtraction fact.
* J.JO quart recois to	,55-72-23
gave \$23 more	Ganglia reade to 1 22
X	2 400 raja needs to do 23 more laps.

# Questions to ask ...

- What have you been learning?
- What strategy have you learnt? How does this help you?
- What questions did you find easy?
- Did you make any silly mistakes? What should you have done?
- What do you still find difficult?
- How have you improved?
- What's the next step for you?



#### Useful websites and YouTube channels











#### Useful tools for learning times tables

#### **Laugh Along and Learn YouTube channel** – Kool Kidz Times Tables Songs



#### **Topmarks website** online maths games

#### Top morks Maths games can be a fun way games have been selected to p

Maths games can be a fun way to learn the times tables. These times tables games have been selected to provide practise for children who are beginning to understand the concepts of multiplying numbers. They provide the repetition necessary for children to consolidate their knowledge of times tables and they include games involving factors and multiples.



#### Hit the Button

Quick fire questions on number bonds, times tables, division facts, doubling and halving numbers against the clock.

Mathletics Times Tables app



Meet Max and the Times Tables Band...

Mastering multiplication has never been more fun or more memorable!

# Manga High





Manga High has a wealth of activities and games for students to practise their maths skills, across all content areas.



# Change in maths teaching since we were at school

#### It is no longer just about rote learning ...

- Developing more complex mental maths strategies along with automaticity of facts (e.g. times tables)
- Process of maths
- Strategies flexibility and fluidity
- Explanation and reasoning
- Applying maths into problems
- Real-world mathematics



# Mathematics Syllabus - Content



# It's over to you!

#### Questions for our parents to answer ...



- What do your kids tell you about maths at school?
  - What do you know about your child's strengths in maths?
  - What do you worry about most when it comes to your child and maths?
- How capable do you feel in helping your child with maths?