

CANOSSA CONVENT PRIMARY SCHOOL

Teaching Of Mathematics

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HOD, Mathematics

Let's listen to a story!



A Society that emphasizes :

1. Innovation and Enterprise

2. Information Technology

3. Knowledge

4. Life Skills & Values

5. Globalisation

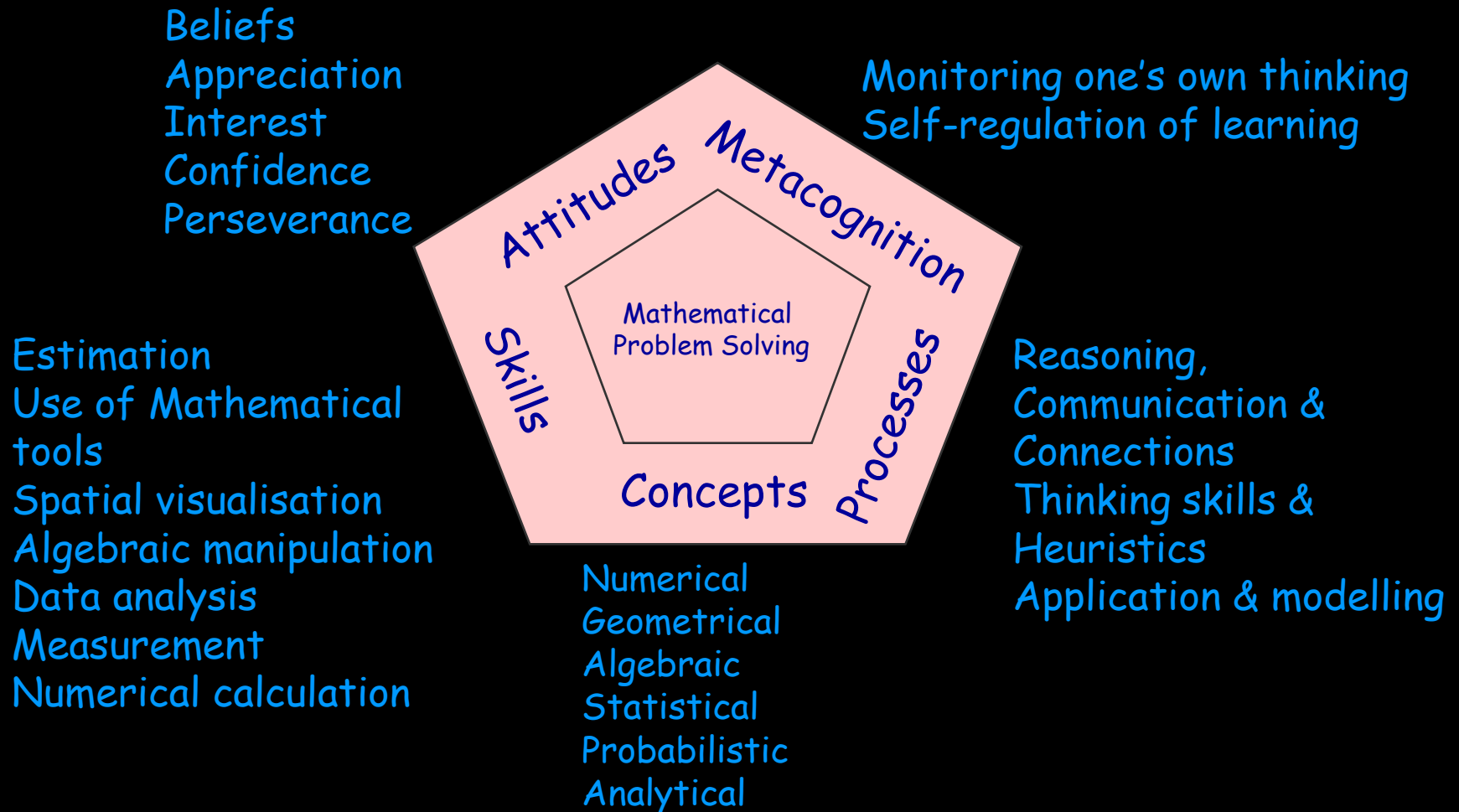
THE TEACHING AND LEARNING PROCESS

Mathematics Program Emphasizes:

- Knowledge (content)
- Skills (problem solving, communication, thinking, measurement)
- Attitudes (confidence & perseverance)



Mathematics Framework



How Do We Help Pupils to Learn ?



1) Rigorous Instructional Programme which equips pupils with a strong foundation in concepts, skills, thinking process and metacognition.

2. Activities within and outside the classroom provide opportunities to apply mathematics concepts to solve problems in their daily life and the real world.



3. A balanced assessment system to gather information about pupils' learning progress.

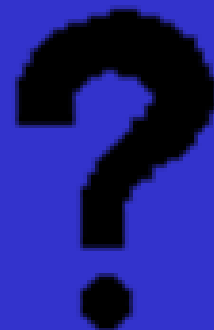


P1 Mathematics Curriculum

- Mathematics Heuristics
- Mastery Learning
- Enhanced LSM Programme & Home School Support
- Remedial lessons
- ICT (eg. Ask n learn, Multe-Math)
- Fun Math Games / competitions
- Using Literature to promote mathematics learning
- Activity-based learning
- Learning Journeys

What are heuristics?

- Process Skills in problem-solving
- The *heuristics* of problem solving are the strategies or tactics used in solving problems. These techniques are general guidelines that are useful in solving a wide range of problems.



Heuristics taught at P1

- Look for a Pattern
- Draw a diagram / model



Enhanced LSM

Learning Support for Mathematics

- LSM Coordinator & Teacher – Mdm Raihana
- Home School support through Math packs
- Coaching of pupils
- Termly sharing sessions by co-ordinator

REMEDIAL LESSONS

- Provide additional support to selected pupils who need to build a foundation in Mathematics

Note : Parents' support is of utmost importance

ICT Lessons & Games



- Use of school Ask n Learn portal and Multi-e Math toolbox to teach and learn Math concepts

Math in Literature

- Earlier example was given in the story I had narrated.

Activity Based learning

- Using manipulatives and existing items to help pupils learn Math concepts.
Eg. Buttons, ice-cream sticks, coins, chocolate trays, etc.



Learning Journeys

- Aljunied Park
 - Mathematics is integrated into the LJs. Eg. Counting the number of steps taken to walk from one part of the park to another.

Sudoku Training

- Objective : Develop logical reasoning skills
- Held outside curriculum time
- Self-directed learner : Start by downloading iphone apps on free Sudoku

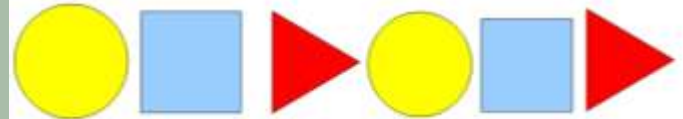
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| | 6 | | | | | 2 | 8 | |
| | | | 4 | 1 | 9 | | | 5 |
| | | | | 8 | | | 7 | 9 |

For Math, my child learns to...



work with numbers

1. Create your own pattern using at least 3 basic shapes and repeat it



Count the number of shapes in this picture and type the answers as...



use ICT tools

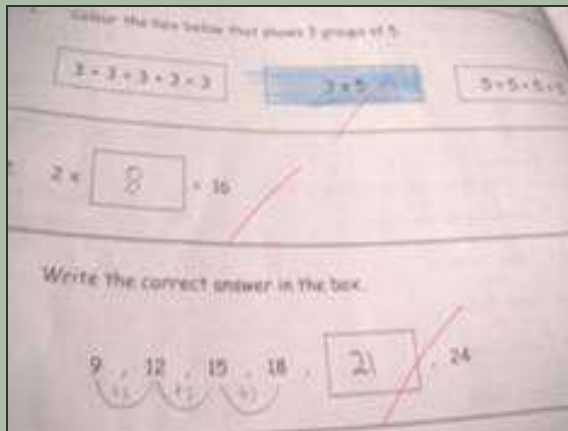


solve problems



appreciate Math on LJs

How will my child be assessed for Math?



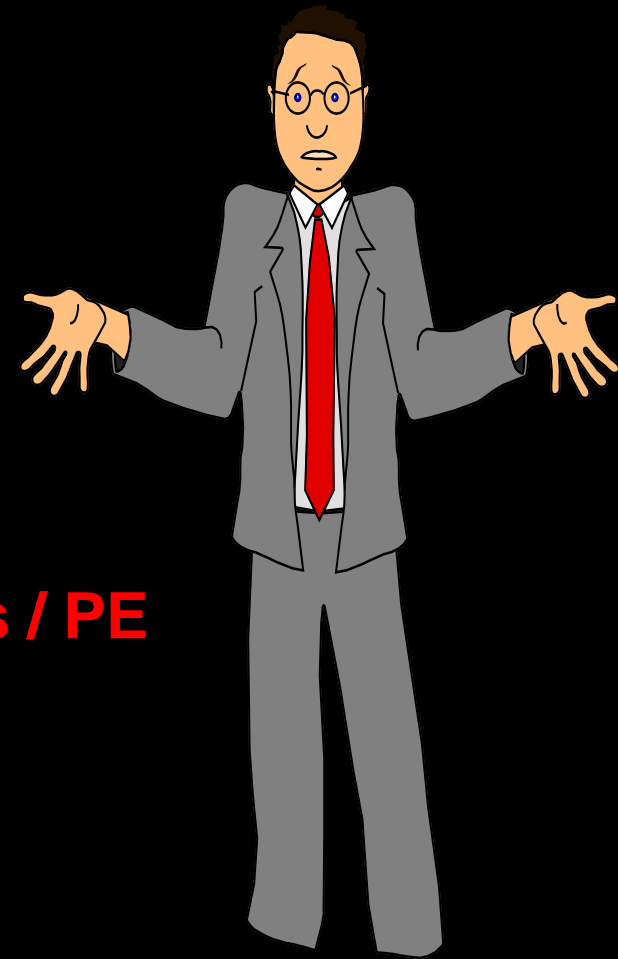
Bite-Sized Tests



Performance Tasks

HELP OUR CHILDREN LIKE MATHS

- Reduce Fear Factor
- Communicate numbers
- Apply maths to daily events
- Provide opportunities
- Maths Games (iphone apps) / Puzzles / PE
- Stories
- Lots of praises & encouragement





Some things to take note :

- **Remind child to complete all homework assigned.**
- **Whiteboard & Erasers**
- **Child to learn multiplication tables by end of the year. Eg. 2x**
- **Encourage your child not to be afraid to ask teachers questions**



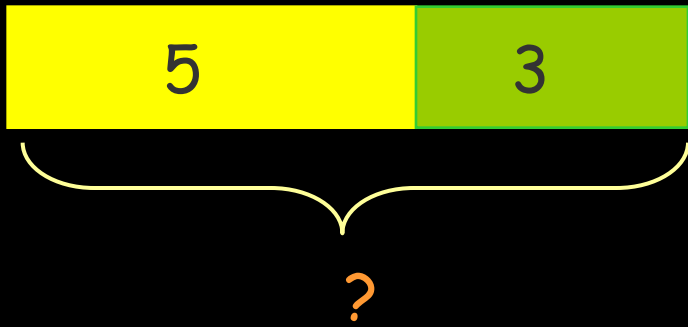
- **Parents as role-model. Do not say “My math is terrible. I can’t help you.” Instead, you can say, “Let’s do this together.”**
- **Please get your child to write her name, class, index no. and date on the top right hand corner of her assignment(s).**

Sample of how work is to be done

P.T.O

Structures to follow :

Joseph has 5 marbles. His mother gives him 3 more. How many marbles does he have now?



$$\underline{J \text{ now : } 5 + 3 = 8 \text{ (Ans)}}$$

Ans : 8 marbles

Working

HEURISTIC WORKSHOP FOR P1 TO 3 PARENTS

- Tentatively in March
- On a Saturday morning
eg. 9 a.m. to 12 p.m.
- Parents will be notified of
the workshop
- Interested parents can sign
up for it
- Maximum class size of 35
- First-come-first-serve basis



- **Quotes :**

Do not worry about your difficulties in Mathematics. I can assure you mine are still greater.

Albert Einstein (1879 - 1955)

You may be disappointed if you fail, but you are doomed if you don't try.

Beverly Sills (1929 -)

Failure here doesn't refer to just the child's failure. We too must look into ourselves, our strengths, our failures.

Have we given her hope to try?
Or have we given up hope trying?



Thank You

