Numeracy

Numeracy Goal

- To provide targeted teaching to meet needs and improve Numeracy levels/skills

- To building a community of learners

Numeracy Block

- Rec-Yr.2: Mon-Thurs 11:30-12:30

- Yr. 3/4, 4/5: Mon – Thurs 12:30-1:30

Roles

Jane (6/7)

Classroom Teachers

Fran (R/1)

Malama (1/2)

Natalie (3/4)

Cristian (4/5)

Matt (5/6)

Co-educators

Maria

Jodie

Specialists

Louise (Inclusive Ed)

Structure

- Numeracy Block is at least an hour uninterrupted

- Students learning needs are targeted through specific grouping based on data- flexibility to work with students in small groups and 1:1

- Groupings are not confined to age or year level

- Student grouping is discussed in Learning Team (LT) meetings

- Classroom teachers, specialist teachers and co educators (ESOs) work within Numeracy Groups

Pedagogy

- Teaching mathematical strategies explicitly

- Scaffolding

- Real world connections

- Key ideas: conceptual understanding, fluency, problem solving and reasoning

- Language of Mathematics– correct terminology

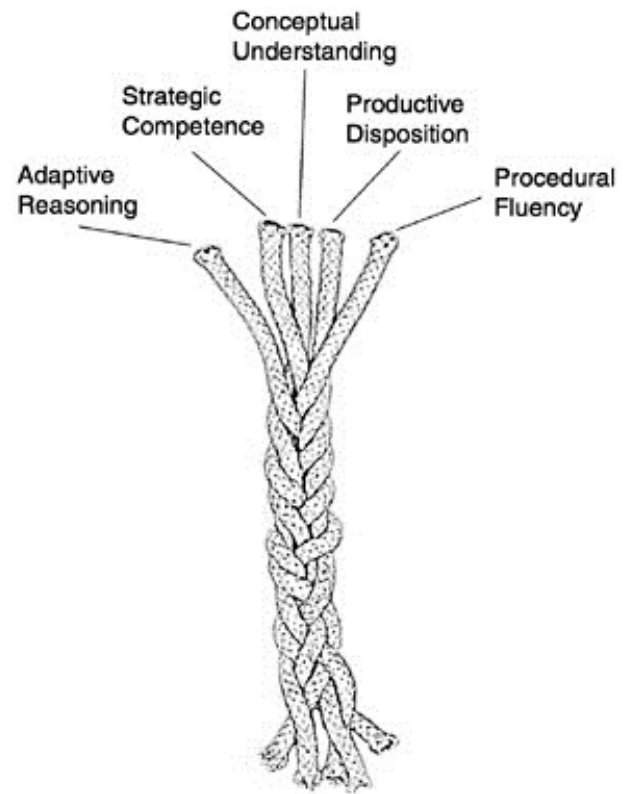- Explicitly teach worded problems

- ICt integration

Content Knowledge

Content strands and sub-strands in the Australian Curriculum: Mathematics (F–10)

Number and algebra	Measurement and geometry	Statistics and probability
Number and place value (F–8)	Using units of measurement (F–10)	Chance (1–10)
Fractions and decimals (1–6)	Shape (F–7)	Data representation and interpretation (F–10)
Real numbers (7–10)	Geometric reasoning (3–10)	N/A
Money and financial mathematics (1–10)	Location and transformation (F–7)	N/A
Patterns and algebra (F–10)	Pythagoras and trigonometry (9–10)	N/A
Linear and non-linear relationships (7–10)	N/A	N/A

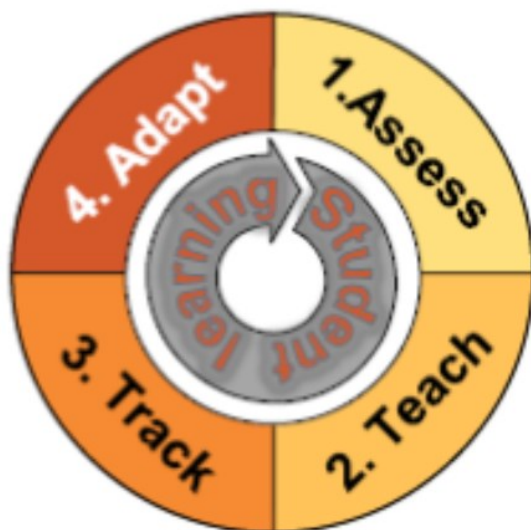www.australiancurriculum.edu.au/f-10-curriculum/mathematics/structure/

Mathematical Proficiencies

Adding It Up: Helping Children Learn Mathematics

Jeremy Kilpatrick, Jane Swafford, Bradford Findell, Editors; Mathematics Learning Study Committee, National Research Council

Targeted Teaching

Goss, P. Hunter, J. Romanes, D. Parsonage, H. (2015) Targeted teaching: How better use of data can improve student learning, Grattan Institute.

Assessment

- Regular, ongoing assessment (schedule)

- Rec-Yr.2 Numeracy Rubrics

- Yr.3-7 PAT-M

- Yr. 3, 5 &7 NAPLAN

- NG teachers assess students in their group and shares results with classroom teachers

- Upload data to database once a term (or as assessments completed)

	Reception	Yr. 1	Yr. 2	Yr. 3	Yr. 4	Yr. 5	Yr. 6	Yr. 7
Term 1	PAST Literacy Skills Checklist Numeracy Rubrics	PAST (as req.) Running Records Numeracy Rubrics BURT Westwood	PAST (as req.) Running Records BURT Westwood	Running Records PAT-R PAT-M BURT Westwood	Running Records PAT-R PAT-M BURT Westwood	BURT Westwood PAT-R PAT-M	BURT Westwood PAT-R PAT-M	BURT Westwood PAT-R PAT-M
Term 2	PAST Running Records Numeracy Rubrics EAL Levelling (oral)	EYA PAST Running Records Numeracy Rubrics EAL Levelling (written)	PAST Running Records EAL Levelling (written)	Running Records NAPLAN (May) EAL Levelling (written)	Running Records EAL Levelling (written)	Running Records NAPLAN (May) EAL Levelling (written)	Running Records EAL Levelling (written)	Running Records NAPLAN (May) EAL Levelling (written)
Term 3	PAST Running Records Numeracy Rubrics	PAST Running Records Numeracy Rubrics BURT Westwood	PAST Running Records BURT Westwood	Running Records BURT Westwood PAT-R PAT-M	Running Records BURT Westwood PAT-R PAT-M	Running Records BURT Westwood PAT-R PAT-M	Running Records BURT Westwood PAT-R PAT-M	Running Records BURT Westwood PAT-R PAT-M
Term 4	PAST Running Records Numeracy Rubrics	PAST Running Records Numeracy Rubrics	PAST Running Records Numeracy Rubrics	Running Records	Running Records	Running Records	Running Records	Running Records

Collaboration

- Teachers collaborate through Learning Teams- teachers share their lesson focus, activities, assessments
- LT meetings- 3 per term (minuted)

Learning Environment

- Learning environment encourages collaboration, flexibility and creativity- e.g. round tables, sitting/ standing, etc.

- Students have opportunities to work together, discuss, work with different people and share work

- Planning for hands-on, interactive activities