RENMARK PRIMARY SCHOOL -Numeracy Learning

BELIEF STATEMENT

At Renmark Primary School: we believe a whole school approach is necessary to support all students in developing rich mathematical knowledge and understanding, and for all students to apply mathematical skills with confidence in their daily lives. We place a strong emphasis on creating a community of mathematical learners.

The Australian Curriculum: Mathematics provides students with essential mathematical skills and knowledge in Number and Algebra, Measurement and Geometry, and Statistics and Probability. The Mathematics curriculum focuses on developing increased efficiency in mathematical understanding, fluency, logical reasoning, analytical thought and problem-solving skills.

PEDAGOGY—A CONSISTENT APPROACH

The Australian Curriculum scope and sequence guides our programming and planning, while TfEL influences our pedagogy and the Natural Mathematics Lesson Cycle and its strategies support understanding, fluency, problem solving and reasoning skills. As a whole school approach to teaching Mathematics;

- teachers implement a 3 part numeracy block—mental routine, problematisation / skill development and reflection,
- the Natural Maths 'Secret Code' strategies are explicitly taught,
- the STAR model and a range of problem solving strategies are explicitly taught,
- incorporation of the Big Ideas in Number into teaching programs,
- teachers provide problems which allow for differentiation and multiple entry points,
- teachers provide opportunities for students to reason mathematically and reflect on their learning,
- teaching is supported by a range of quality age-appropriate resources ; and
- the community is engaged through class newsletters, competitions and whole school events.

MENTAL COMPUTATION—'Secret Code'	R	1	2	3	4
Subitize, Count All, Count On and Doubles	■				
Turnarounds, Rainbow Facts, Near Doubles & Friendly Numbers		■			
Bridge Through to 10 & extend number facts; Count on 10, 20, 30, Doubles and Near Doubles, Rainbow Facts to 100 & Friendly No.s			■		
Landmark Numbers, Tallies, Rainbow Facts linked to Number Splitting				■	
Rounding and Round & Adjust					■

'Secret Code' forms the main mental computation strategies. Students are encouraged to use initials of each strategy to assist them in reflections and be used by teachers as an assessment tool. These strategies are further developed and expanded in the Middle Primary, thus forming a 'tool box of strategies', which students can use in their daily mathematics tasks and everyday life. Posters are displayed in class which remind students of strategies and act as a prompt when solving and reflecting.

BIG IDEAS IN NUMBER—BIN	R	1	2	3	4	5	6	7
Trusting the Count—developing flexible mental objects for the numbers 0-10	■	■						
Place Value—the importance of moving beyond counting by ones, the structure of the base 10 numeration system.		■	■					
Additive and Multiplicative Thinking—develop efficient mental and written computation strategies				■	■			
Partitioning—building common fraction and decimal knowledge and confidence						■	■	
Proportional Reasoning—needed to solve problems involving fractions, decimals, percent, ratio, rate and proportion.							■	■
Generalisation—fundamental to engage with broader curricula expectations.								■