**MATHEMATICS STAGE 1**

**TEACHING AND LEARNING OVERVIEW**

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| TERM: 1 | WEEK: 10 | STRAND:Number and Algebra | **SUB-STRAND:**  Whole Numbers 2 | **WORKING MATHEMATICALLY:**  MA1-3WM & MA12WM |
| OUTCOMES: | | * MA1-1WM describes mathematical situations and methods using every day and some mathematical language, actions, materials, diagrams and symbols * MA1-2WM uses objects, diagrams and technology to explore mathematical problems * MA1-3WM supports conclusions by explaining or demonstrating how answers were obtained * MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers | | |
| **CONTENT:** | | The following unit is incomplete. If you have taught or have any units that match this content please email to [lauren.dawson16@det.nsw.edu.au](mailto:lauren.dawson16@det.nsw.edu.au) (Glenmore Park Learning Alliance).  **Investigate number sequences, initially those increasing and decreasing by twos, threes, fives and tens from any starting point, then moving to other sequences (ACMNA026)**  • count forwards and backwards by twos, threes and fives from any starting point  • count forwards and backwards by tens, on and off the decade, with two- and three-digit numbers, eg 40, 30, 20, … (on the decade); 427, 437, 447, … (off the decade)  • identify number sequences on number charts | | |
| ASSESSMENT FOR LEARNING (PRE-ASSESSMENT) | |  | | |
| WARM UP / DRILL | |  | | |
| TENS ACTIVITYNEWMAN’S PROBLEMINVESTIGATION | |  | | |
| QUALITY TEACHING ELEMENTS | | **INTELLECTUAL QUALITY** | **QUALITY LEARNING ENVIRONMENT** | **SIGNIFICANCE** |
| * Deep knowledge * Deep understanding * **Problematic knowledge** * Higher-order thinking * **Metalanguage** * Substantive communication | * Explicit quality criteria * **Engagement** * High expectations * Social support * **Students’ self-regulation** * Student direction | * Background knowledge * Cultural knowledge * **Knowledge integration** * Inclusivity * Connectedness * Narrative |
| RESOURCES | |  | | |

**TEACHING AND LEARNING EXPERIENCE**

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| WHOLE CLASS INSTRUCTION MODELLED ACTIVITIES | GUIDED & INDEPENDENT ACTIVITIES | |
| **Explicit Teaching** | LEARNING SEQUENCERemediationES1LEARNING SEQUENCES1 |  |
| LEARNING SEQUENCEExtensionEarly S2 |  |
| EVALUATION & REFLECTION | Student engagement: Achievement of outcomes:  Resources: Follow up: |
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