**MATHEMATICS STAGE 2**

**TEACHING AND LEARNING OVERVIEW**

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| TERM:  | WEEK: 8 | STRAND: Measurement and Geometry | **SUB-STRAND:** **Time 2** | **WORKING MATHEMATICALLY:** MA2-1WM, MA2-2WM |
| OUTCOMES: MA2-13MG  | **Reads and records time in one-minute intervals and converts between hours, minutes and seconds**  |
| **CONTENT:**  | **Read and interpret simple timetables, timelines and calendars**\* Explore and use different notations to record the date (Communicating)\* Explore and use the various date input and output options of digital technologies (Communicating) |
| ASSESSMENT FOR LEARNING(PRE-ASSESSMENT) | * Pose question to students…..

If today is the seventh day of August, write down in as many ways as you can think, todays date.  |
| WARM UP / DRILL | * Basic number facts to 30 eg 13 + 7 = (using the parameters of numbers in calendar) Adding and subtracting 7, 14 etc.
 |
| TENS ACTIVITYNEWMAN’S PROBLEMINVESTIGATION  | Today is the 7th March and I am going to my friends’ birthday party in exactly 9 days, what is the date of my friends party? |
| 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 EXPERIENCES**

|  |  |
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| WHOLE CLASS INSTRUCTION MODELLED ACTIVITIES | GUIDED & INDEPENDENT ACTIVITIES |
| * ***Whole class discussion***

How to read and write the date in different formats There are many different ways of writing the date. The date Tuesday 27 February 2007 could be written as:• Tuesday, 27 February 2007 • 27th February 2007 • 27-Feb-07 • 27/02/2007 • 27.02.07 Dots . slashes / or dashes - can be used to separate the day, month and year.All parts of the date can be shortened, or abbreviated. For example, February becomes Feb and 2007 becomes 07.When a date is shown numerically the first number is the day, the second number the month and the third is the year.* ***Explore***

How different countries/cultures record the date-American (mm/dd/yyyy)  | LEARNING SEQUENCERemediationS1 or Early S2 | * ***Activity – Abbreviations***

Students demonstrate their ability to abbreviate the days of the week/months of the year.* ***Activity***

Students work with partner using flip cards of months of the year to indicate month number ie February is held up, partner says ‘2’. Continue and alternate roles.* ***Activity***

Students record a set of dates in a variety of formats. |
| LEARNING SEQUENCE | * ***Activity – Abbreviations***

Students demonstrate their ability to abbreviate the days of the week/months of the year.* ***Activity***

Students work with partner using flip cards of months of the year to indicate month number ie February is held up, partner says ‘2’. Continue and alternate roles.* ***Investigation***

Students identify dates/seasons and illustrate their findings.* ***Activity***

Students record a set of dates in a variety of formats. |
| LEARNING SEQUENCEExtension Late S2 or Early S3 | * ***Activity - Palindromic Numbers***

The number 2002 is palindromic because it is the same read from left to right as it is read from right to left.There was one date in February of the year 2002 where the eight digits are palindromic if the date is written in the British way (dd/mm/yyyy).This is not palindromic written the American way (mm/dd/yyyy).Is there any palindromic date written the American way that year?Find the next occasions when palindromic dates occur written in each way and the number of days between them. |
| **EVALUATION & REFLECTION** |  |