**MATHEMATICS STAGE 2**

**TEACHING AND LEARNING OVERVIEW**

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| TERM: | WEEK: 7 | 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**  \* Read and interpret calendars | | |
| ASSESSMENT FOR LEARNING (PRE-ASSESSMENT) | | * Discuss with students….***anecdotal notes taken*** * What is a calendar? * How many days in a week? What are the days? * How many months in a year? Name them. | | |
| WARM UP / DRILL | | * Counting forwards and backwards by 7 starting from various numbers. * Counting forward and backward across decade | | |
| TENS ACTIVITYNEWMAN’S PROBLEMINVESTIGATION | | If today’s date is 8th July and Sarah’s birthday is in one week from today, what is the date of Sarah’s birthday? | | |
| 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 | | A variety of different calendars | | |

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| WHOLE CLASS INSTRUCTION MODELLED ACTIVITIES | GUIDED & INDEPENDENT ACTIVITIES | |
| * ***Whole class discussion*** * What is a calendar? * Where might you see a calendar? * What might a calendar be used for?   Say the days of the week.  Say the months of the year.  Say the days in a month rhyme   * *Thirty days has September, April, June and November. All the rest have thirty-one except February along which has 28 days clear and 29 in each leap year.*   *Discuss what a leap year is.*   * Talk about the concepts of today, yesterday, tomorrow, next week, last month, and next month using the calendar. "Yesterday, we…. Today, you…. Tomorrow, you will … Last month, we… etc. Next month, you will.... Two months from today, you will..., etc." Next week/month, last/week/month are difficult concepts for young/special needs children. Note hypothetical family appointments on the calendar. Ask the child, "How many more days/ weeks/months until you… see the doctor? …have your football game? … have your recital? ...visit the dentist?" Have the child point to and count the days. * Mark the first days of each season on the calendar. Talk about how many more days/ weeks/months until a certain season begins/ends. Talk about the types of clothing we wear during certain seasons. Talk about events and observances that occur during the season. | LEARNING SEQUENCERemediationS1 or Early S2 | * ***Activity 1- Interactive Activity*** Students engage with interactive sites:   <http://www.softschools.com/math/calendar/activities/calendar_game/>  <http://www.bestschoolgames.com/educational-games/magic-calendar/>  <http://mrnussbaum.com/calendarclowns/>   * ***Activity 2*** Written word problems: Calendars   <http://www.greatschools.org/worksheets-activities/5431-reading-a-calendar.gs> |
| LEARNING SEQUENCE | * ***Activity – complete the calendar***   **Students are provided with a blank calendar/page and complete the calendar using the statements posed**  Eg. On the first Tuesday of the month, you have a doctor’s appointment, mark this on the calendar etc   * ***Word problems***   Provide students with calendar word problems – students complete using known problem solving strategies (eg Newmans). Students may work with partner to complete the activity.  http://www.worksheetworks.com/math/time/calendar-word-problems.html |
| LEARNING SEQUENCEExtensionLate S2 or Early S3 | * ***Activity – complete the calendar***   Students are provided with a blank calendar/page and add specific activities to the calendar before composing 10 comprehension questions based on the information provided on their page/month.  Eg. On the first Tuesday of the month, you have a doctor’s appointment, mark this on the calendar etc   * ***Investigation – Word problems***   Provide students with calendar word problems – students complete using known problem solving strategies (eg Newmans). Students may work with partner to complete the activity.  http://www.worksheetworks.com/math/time/calendar-word-problems.html |
| **EVALUATION & REFLECTION** |  |