**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 SEQUENCEExtension Late 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** |  |