Metella Road Public School

Parent Workshops

Stage Two - Mathematics
Stage 2
Monitoring and Assessing Student Skills at MRPS

- SENA-Schedule for early number assessment
- Teacher observations
- Structured assessment tasks
- Parent Teacher Meeting
- Reporting to parents twice a year
Resources to Support Mathematics

- Place value - Base 10 blocks, Number chart
- Addition and subtraction - Dice, counters, unifix and centicube blocks.
- Space - Three Dimensional objects, nets.
- Length - tape measure, ruler or trundle.
- Time - analog and digital clocks, calendar, timelines and timetables.
- Volume and capacity - variety of containers.
- Mass - different weights, equal arm balance.
Teaching Maths at MRPS S 2

- Modelled, guided and independent instruction.
- Formal, informal and mental strategies
- Logical reasoning, analytical thought and problem solving skills.
- Apply mathematical knowledge in a broad range of contexts and in core learning areas as Science and Technology, HSIE and English.
- Linking Mathematics to real life situations.
- Motivate learners through inquiry and participation in challenging experiences.
The Australian Curriculum - Strands

- Number and Algebra
- Measurement and Geometry
- Statistics and Probability
Number and Algebra

- Commutative concepts taught in conjunction with each other (i.e. addition and subtraction).
- Patterns and algebra related to the four operations.
- Concrete materials/resources (e.g. base 10 blocks, counters, pattern blocks, calculators and flip charts).
- Contextual.
- Problem solving.
Measurement and Geometry

- Formal and informal forms and units of measurement.
- Hands-on manipulation and measurement (e.g. building, investigations, and using tools to measure).
- Visual strategies (e.g. drawing/sketching to represent concepts).
- Contextual and based on their environment.
- Problem solving.
Statistics and Probability

- Conduct own surveys to collect, organise, interpret and represent data in tables and graphs, with and without ICT.
- Visual literacy (e.g. learn how to ‘read’ tables and graphs based on their features).
- Conduct simple chance experiments to record results and describe chance.
- Contextual.
- Problem solving.
Differentiation

- Adjustments/modifications made to content, teaching environment or teaching strategies.
- Learning styles.
- Partner/group work.
- Cater to pace and level of learning.
- Resources for assistance.
- Extend through pace, level and task expectations (make connections, manipulate abstract ideas, apply, synthesise and evaluate).
How Can I Help at Home?

• Discussing the use of numbers, patterns and shapes in your day-to-day life.
• Exploring situations using money.
• Estimating, measuring and comparing lengths and heights and how much containers hold.
• Using everyday tools like tape measures or kitchen scales and discussing the units of measure.
• Observing and using timetables, calendars and clocks.
• Planning and catching public transport.
## Great Mathematics Apps!

<table>
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<tr>
<th>Deep Sea Duel</th>
<th>This NCTM app is great for practicing mental computation and problem solving. The user plays against ‘Okta’, the octopus by taking turns to select cards from a pile with the aim of reaching a target number. The player can select the level of difficulty.</th>
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# Great Mathematics Apps!

| Pattern Blocks | This app replicates the standard pattern block set with the addition of two extra shapes. The app provides the option of using a triangular, square or no grid as a background. Users simply drag shapes onto the grid. Shapes can also be layered which allows for exploration of fraction concepts as well as shape and tessellation. |
Great Mathematics Apps!

| Think 3D free | This is a great app that allows the user to create and manipulate 3D objects. Excellent for assisting students develop visualization skills. |

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Great Mathematics Apps!

| Teaching Graphs | This is a great app for teaching graphs. The app has two separate functions. The first provides practice at reading weather graphs, picture graphs, Venn diagrams and Carroll diagrams. The second function allows the user to make pie charts, Carroll diagrams, Venn Diagrams and line graphs. The app also allows the user to save and email their work - great for assessment purposes. |
Thank You For Coming

questions and resources
time
Thank You For Coming

*Please feel free to ask questions and play with the resources*