



MATH ENTRANCE PORTIONS – 2020-21

<b>GRADE 1</b>	<ul style="list-style-type: none"><li>● <b>NUMBER SKILLS</b><ul style="list-style-type: none"><li>● Count forwards and backwards to and from 100, starting at any given number.</li><li>● Read, write and say aloud numbers written in figures from 1–100.</li><li>● Place value of 2 digit numbers.</li><li>● Identify missing numbers up to and including 100.</li><li>● Build up to missing numbers on a 100-square</li><li>● Compare and order numbers to 100</li></ul></li><li>● <b>Addition and subtraction</b><ul style="list-style-type: none"><li>● Solve addition problems involving number bonds up to and including 20.</li><li>● Solve subtraction problems involving number bonds up to and including 20.</li><li>● Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) for number bonds up to and including 20.</li></ul></li><li>● <b>FRACTIONS</b><ul style="list-style-type: none"><li>● Recognise, work out and name a half as one of two equal parts of an object or shape and recognise that two-halves make one-whole.</li></ul></li><li>● <b>MEASURES</b><ul style="list-style-type: none"><li>● Use words only (no numbers) to compare, order and describe different measures.</li><li>● Measure lengths/heights, mass/weight, capacity/volume with non-standard units.</li></ul></li><li>● <b>TIME</b><ul style="list-style-type: none"><li>● Recognise time in seconds, minutes and hours.</li><li>● Tell the time on an analogue clock to the hour and half past the hour.</li></ul></li><li>● <b>SHAPES</b><ul style="list-style-type: none"><li>● Recognise and say aloud the name of common 2D AND 3D shapes.</li></ul></li><li>● <b>POSITION</b><ul style="list-style-type: none"><li>● Describe position, direction and movement.</li></ul></li></ul>
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	▪ <b>GRADE 2</b>
<b>GRADE 2</b>	<ul style="list-style-type: none"><li>● <b>NUMBER SKILLS</b><ul style="list-style-type: none"><li>● Recognize the place value of each digit in a 3-digit number (10s and 1s) and write numbers in expanded form.</li><li>● Compare numbers using symbols.</li><li>● Read and write ordinal numbers 1-10</li></ul></li></ul>

	<ul style="list-style-type: none"> <li>● <b>ADDITION AND SUBTRACTION</b></li> <li>● Add and subtract two digit numbers</li> <li>● Solve missing number problems</li> <li>● Word problems</li> <li>● <b>MULTIPLICATION AND DIVISION</b></li> <li>● Solve 1-step problems involving dividing by 2, dividing by 5 and dividing by 10 (sharing equally or grouping)</li> <li>● <b>FRACTIONS</b></li> <li>● Recognise, work out and name one-quarter as one of four equal parts of an object or shape and recognise that four-quarters make one-whole.</li> <li>● <b>MEASURES</b></li> <li>● Measure lengths/heights (m) with standard units. Identify metric units of mass ,volume and capacity.</li> <li>● <b>TIME</b></li> <li>● Read and write the time in multiples of 5 to and past the hour on an analogue <b>clock</b>.</li> <li>● Solve simple problems involving time</li> <li>● <b>GEOMETRY/SHAPES</b></li> <li>● Describe position, direction and movement, including rotations of whole, half and quarter turns; clockwise and anti-clockwise</li> <li>● Identify, describe and compare the simple properties of common 3D shapes; sort the shapes accordingly</li> <li>● <b>STATISTICS</b></li> <li>● Interpret and construct simple pictograms</li> <li>● Interpret simple tally charts and tables</li> </ul>
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<b>▪ GRADE 3</b>	
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<b>Grade 3</b>	<ul style="list-style-type: none"> <li>● <b>NUMBER SKILLS</b></li> <li>● Recognize the place value of each digit in a 4-digit number and write numbers in expanded form.</li> <li>● Compare numbers using symbols.</li> <li>● <b>ADDITION AND SUBTRACTION</b></li> <li>● Add AND subtract numbers with up to three digits, using formal written methods of column.</li> <li>● Simple addition and subtraction word problems.</li> <li>● <b>MULTIPLICATION AND DIVISION</b></li> <li>● Multiply 2-digit and 3-digit numbers by a 1-digit number using a formal written method.</li> <li>● Divide numbers up to and including four digits by 1-digit numbers with remainders written as integers and interpret remainders appropriately for the context.</li> <li>● <b>FRACTIONS</b></li> <li>● Recognise that two-halves make one-whole, three-thirds make one-whole, four- quarters make one-whole, five-fifths make one-whole ... ten-tenths make one-whole (for fractions with denominators up to and including 10)</li> <li>● Compare and order unit fractions, and compare and order fractions with the same denominators</li> <li>● <b>MEASURES</b></li> <li>● Units of length, weight and capacity</li> <li>●</li> </ul>
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	<ul style="list-style-type: none"> <li>• <b>SHAPES</b></li> <li>• . Find perimeters of rectilinear shapes drawn on cm squared grids by counting squares.</li> <li>• <b>STATISTICS</b></li> <li>• Interpret and construct pictograms bar charts (using a scale of 1, 2, 5 or 10).</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>GRADE 4</b></li> </ul>
<b>Grade 4</b>	<ul style="list-style-type: none"> <li>• <b>NUMBER SKILLS</b></li> <li>• Numbers 1- 100 000 •</li> <li>• Four operations</li> <li>• <b>Fractions</b></li> <li>• Equivalent fractions</li> <li>• Addition &amp; subtraction of like fractions</li> <li>• Fractions of an amount (two digit numbers)</li> <li>• <b>Decimals (1 dp)</b></li> <li>• Place value</li> <li>• Addition &amp; subtraction</li> <li>• <b>Word problems on all the above topics</b></li> <li>• <b>SHAPES</b></li> <li>• 2D and 3D shapes (identifying)</li> <li>• Area and perimeter of squares, rectangles and compound shapes made of squares and rectangles</li> <li>• Lines of symmetry</li> <li>• Lines and angles (Measuring and drawing all types of angles)</li> <li>• <b>Measures •</b></li> <li>• Units of length, weight and capacity</li> <li>• Reading time</li> <li>• 12 hour and 24 hour clock</li> <li>• Time duration</li> <li>• <b>Handling data</b></li> <li>• Pictogram,</li> <li>• block graph,</li> <li>• bar graph,</li> <li>• tally chart,</li> <li>• • line graph</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>GRADE 5</b></li> </ul>
<b>GRADE 5</b>	<ul style="list-style-type: none"> <li>• <b>Number work:</b></li> <li>• Numbers 1- 100 000</li> <li>• Four operations</li> <li>• <b>Fractions</b> <ul style="list-style-type: none"> <li>▪ Equivalent fractions</li> <li>▪ Addition &amp; subtraction of unlike fractions</li> <li>▪ Fractions of an amount .</li> </ul> </li> <li>• <b>Decimals (2 dp)</b> <ul style="list-style-type: none"> <li>▪ Place value</li> <li>▪ Rounding</li> <li>▪ Addition &amp; subtraction</li> </ul> </li> <li>• <b>Percentages</b> <ul style="list-style-type: none"> <li>▪ Percentages of an amount</li> <li>▪ Conversion of fractions, decimals &amp; percentages</li> </ul> </li> <li>• <b>Word problems on all the above topics</b></li> </ul>

- **Shapes:**
- 2D and 3D shapes (identifying)
- Area and perimeter of squares, rectangles and compound shapes made of squares and rectangles • **Lines of symmetry**
- Lines and angles. (Measuring and drawing all types of angles)
- Plotting coordinates (First quadrant)
- **Measures**
- Units of length, weight and capacity
- Reading time
- 12 hour and 24 hour clock
- Time duration
- **Handling data**
- Pictogram,
- bar graph,
- tally chart,
- line graph

## GRADE 6

- **Number work**
- Factors, multiples
- Prime factorization
- All four operations
- **Fractions**
- Equivalent fractions
- Addition, subtraction & multiplication
- Fractions of an amount
- **Decimals**
- Decimal place values
- Addition, subtraction & multiplication
- **Percentages**
- Percentages of an amount
- Conversion between fraction, decimals & percentages
- **Ratio and proportion**
- Word problems on all the above topics
- **Algebra:**
- Mapping and expressions
- Solving simple linear equations
- Substituting values
- Plotting coordinates in all four quadrants
- **Statistics:**
- Mean, median, mode, range from a raw data
- Pictogram
- Tally chart
- Bar graph
- Line graph
- Pie chart