

## AMENDED TEACHING YEAR PLAN FOR 2021: TERM 1

TOPICS	GRADE 7
<b>REVISION of grade 6 work</b>	<b>W1 [2.5 hrs] W9 [2hrs]</b>
Whole numbers: <b>1.1 Counting, ordering, comparing, representing, place value</b>	<p><b>13.5 hrs. [Week 2 – 4]</b></p> <ul style="list-style-type: none"> <li>Financial maths removed.</li> <li>Concept of LCM and HCF has been modified.</li> </ul> <p><b>Calculation techniques</b></p> <ul style="list-style-type: none"> <li>Use a range of strategies to perform and check written and mental calculations of whole numbers including:               <ul style="list-style-type: none"> <li>long division</li> <li>adding, subtracting and multiplying in columns</li> <li>estimation</li> <li>rounding off and compensating</li> <li>using a calculator</li> </ul> </li> </ul> <p><b>Multiples and factors</b></p> <ul style="list-style-type: none"> <li>List prime factors of numbers to at least 3-digit whole numbers</li> <li>Find the LCM and HCF of whole numbers by inspection or factorisation</li> </ul> <p><b>Solving problems</b></p> <ul style="list-style-type: none"> <li>Solve problems involving whole numbers, including:               <ul style="list-style-type: none"> <li>Comparing of two or more quantities of the same kind (ratio)</li> <li>Comparing two quantities of different kinds (rate)</li> <li>Sharing in a given ratio where the whole is given</li> </ul> </li> </ul>
Whole numbers: <b>1.1 Exponents</b>	<p><b>4.5 hrs. [Week 5]</b></p> <p><b>Mental calculations</b></p> <ul style="list-style-type: none"> <li>Determine squares to at least <math>12^2</math> and their square roots</li> <li>Determine cubes to at least <math>6^3</math> and their cube roots</li> </ul> <p><b>Comparing and representing numbers in exponential form</b></p> <ul style="list-style-type: none"> <li>Compare and represent whole numbers in exponential form: <math>a^b = a \times a \times a \times \dots</math> for b number of factors</li> </ul> <p><b>Calculations using numbers in exponential form</b></p> <ul style="list-style-type: none"> <li>Recognize and use the appropriate laws of operations with numbers involving exponents and square and cube roots</li> <li>Calculations involving all four operations using numbers in exponential form, limited exponents up to 5, and square and cube roots</li> </ul>
Whole numbers: <b>1.4 Common Fractions</b>	<p><b>9 hrs. [Week 6 - 8]</b></p> <p><b>Ordering, comparing and simplifying common fractions</b></p> <ul style="list-style-type: none"> <li>Extend to thousandths</li> </ul> <p><b>Calculations with fractions</b></p> <ul style="list-style-type: none"> <li>Addition and subtraction of fractions including mixed numbers where one denominator is not a multiple of the other.</li> <li>Multiplication common fractions, including mixed numbers, not limited to fractions where one denominator is a multiple of another.</li> </ul> <p><b>Calculation techniques</b></p> <ul style="list-style-type: none"> <li>Convert mixed numbers to common fractions in order to perform calculations with them</li> <li>Use knowledge of multiples and factors to write fractions in the simplest form before or after calculations.</li> <li>Use knowledge of equivalent fractions to add and subtract common fractions</li> </ul> <p><b>Percentages</b></p> <ul style="list-style-type: none"> <li>Calculate the percentage of part of a whole</li> <li>Calculate percentage increase or decrease of whole numbers</li> </ul> <p><b>Solving problems</b></p> <ul style="list-style-type: none"> <li>Solve problems in contexts involving common fractions and mixed numbers, including grouping and sharing; and finding fractions of whole numbers</li> <li>Solve problems in contexts involving percentages</li> </ul>

Whole numbers: <b>1.5 Decimal Fractions</b>	<b>4 hrs. [Week 8 – 9]</b> <b>Ordering and comparing decimal fractions</b> <ul style="list-style-type: none"> <li>• Count forwards and backwards in decimal fractions to at least 3 decimal places</li> <li>• Place value of decimals to at least 3 decimal places</li> <li>• Order and compare decimal fractions to at least 3 decimals</li> <li>• Rounding off decimal fractions to at least 2 decimal places</li> </ul>
<b>Formal Assessment</b>	<p style="text-align: center;"><b>ASSIGNMENT [w6]</b></p> <ul style="list-style-type: none"> <li>• Whole numbers</li> <li>• Exponents</li> </ul> <p style="text-align: center;"><b>Test [w10]</b> All topics</p>
<b>Pre-knowledge</b>	<ul style="list-style-type: none"> <li>• Order, compare, represent and place value of 9-digit numbers</li> <li>• Rounding off to the nearest 5,10,100,1000,10 000, etc.</li> <li>• All operations with whole numbers</li> <li>• Multiples and factors of 3- digit whole numbers</li> <li>• Prime factors of 2-digit whole numbers up to 100</li> <li>• Properties of operations with whole numbers</li> <li>• Identity element of 0 and 1</li> <li>• Ordering and comparing fractions specifically Tenths and hundredths</li> <li>• Addition and subtraction of common fractions, mixed numbers, limited to fractions with the same denominator or where one denominator is a multiple of another</li> <li>• Recognize and use equivalent forms of common fractions with 1-or 2-digit denominators</li> <li>• finding fractions and percentages of whole numbers</li> <li>• Decimal fractions to at least two decimal places:</li> <li>• Equivalence between fractions and percentage forms of the same number</li> <li>• Count forwards and backwards</li> <li>• Compare and order decimal fractions</li> <li>• Place value of digits</li> <li>• Addition and subtraction</li> <li>• Rounding off decimal fractions to at least 1 decimal place</li> <li>• multiplication of decimal fractions by 10 and 100</li> <li>• Equivalence between fractions and percentage forms of the same number</li> </ul>

## **SUMMARY: REVISED PROGRAMME OF ASSESSMENT**

<b>GRADE 7</b>	<b>WEEK</b>	<b>DURATION</b>
<b>Assignment</b>	<b>6</b>	<b>2 hours</b>
<b>Test</b>	<b>10</b>	<b>3 hours</b>