

Grade 6 Mathematics Planner														
Term: 2		Strand: Number and Algebra		Week: 2										
Year Level Indicators	Statement:		Elaborations:											
Level 5	Describe, continue and create patterns with fractions, decimals and whole numbers resulting from addition and subtraction		Using the number line or diagrams to create patterns involving fractions or decimals											
Level 6	They describe rules used in sequences involving whole numbers, fractions and decimals		Investigating additive and multiplicative patterns such as the number of tiles in a geometric pattern, or the number of dots or other shapes in successive repeats of a strip or border pattern looking for patterns in the way the numbers increase/decrease											
Level 7	<p>Introduce the concept of variables as a way of representing numbers using letters</p> <p>Calculate mean, median, mode and range for sets of data.</p> <p>Describe and interpret data displays using median, mean and range</p>		<p>Understanding that arithmetic laws are powerful ways of describing and simplifying calculations and that using these laws leads to the generality of algebra</p> <p>Understanding that summarizing data by calculating measures of centre and spread can help make sense of the data</p> <p>Using mean and median to compare data sets and explaining how outliers may affect the comparison</p>											
	Andrea	Marc	Aidan	Ayse										
Monday	<p>Learning Intention: To be able to analyse and compare sets of data by using the mean, median and mode</p> <p>Summary: Students use peer generated visual representations describing their similarities and differences. They identify the mean, median and mode, commenting on the usefulness of each definition</p>													
Tuesday Rotation	<p>Learning Intention: List the algebraic conventions. Understand that algebra is based on agreed conventions. (Listed on p252 Pearson 7)</p> <p>Summary: Students record conventions then apply to worded examples. C to the power of 4 = cxcxcx</p>	<p>Learning Intention: They describe rules used in sequences involving whole numbers, fractions and decimals</p> <p>Summary: FRACTIONS-DECIMALS-AND-PERCENTS-1-1p59zeI.ppt Part 1 Relationships between fractions, decimals and percentage. Introductory lesson</p>	<p>Learning Intention: To recognise and understand the different terms associated with rules and patterns within numbers, shapes and objects.</p> <p>Summary: equations, expressions, patterns, term, common difference are just some of the terms students need to identify and know.</p> <p>Refer to Rules and patterns PDF</p>	<p>Learning Intention: Revise fractions and their conversion to decimals.</p> <p>Summary: Using fraction wall made last week convert fractions to decimals. Demonstrate method. Using pages 19 and 20 of Mathletics to define tenths and hundredths.</p>										
Wednesday Rotation	<p>Learning Intention: It is much quicker to write rules using algebra than in words. A table of values is an effective way to prove algebraic rules.</p> <p>Summary: Using Rules Students are given a list of rules and required to complete a table to show given values. $Y=x+2$ To find y, double x</p> <table border="1"> <tr> <td>X</td> <td>2.3</td> <td>4.78</td> <td>11</td> <td>16.896</td> </tr> <tr> <td>Y</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	X	2.3	4.78	11	16.896	Y					<p>Learning Intention: They describe rules used in sequences involving whole numbers, fractions and decimals</p> <p>Summary: FRACTIONS-DECIMALS-AND-PERCENTS-1-1p59zeI.ppt Part 2 Which rules are required to change fractions into decimals? Complete the problems in the presentation</p>	<p>Learning Intention: To identify patterns within numbers and locate terms, the common difference and formulating rules</p> <p>Summary: Students complete the multiple choice sheet then working in pairs locate terms, common difference and rules from questions written on the board.</p> <p>Finding Patterns PDF</p>	<p>Learning Intention: Locating fractions and decimals on a number line.</p> <p>Summary: Use the video to explain fractions on a number line. http://www.khanacademy.org/math/cc-third-grade-math/cc-3rd-fractions-topic/cc-3rd-fractions-meaning/v/fractions-on-a-number-line Follow up with Fractions on the number line 1 and 2. Use the video to explain decimals on a number line. http://www.khanacademy.org/math/arithmetric/decimals/decimals-on-number-line/v/decimals-on-a-number-line Do Decimals on the number line 1 and 2.</p>
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Thursday Independent	<p>Learning Intention: Solve worded equations, considering BODMAS, using pronumerals</p> <p>Summary: Students complete recall 5, page 250 Pearson 7. (Consolidation of interpreting worded problems into algebraic equations)</p>	<p>Learning Intention: They describe rules used in sequences involving whole numbers, fractions and decimals</p> <p>Summary: See attached worksheet. Converting fractions, decimals and percentages</p>	<p>Learning Intention: Students can confidently solve patterns and rules involving terms, common difference, expressions within tables, number lines and worded problems.</p> <p>Summary: See attached worksheet: Rules and Patterns PDF – Test Yourself</p>	<p>Learning Intention: Revise the placement of fractions and decimals on a number line.</p> <p>Summary: Follow up games to prac placing decimals and fractions on a number line. The link is in each Grade's folder on student files called Decimal Games There are also two study ladder activities to complete.</p>										