

Year 7 Maths – Summer Term

Intent	<p>Wider Learning:</p> <p>Fractions allows students to compare numbers in different formats.</p> <p>Multiplicative Relationships will ensure that students get an understanding of how numbers connect to one another and how to scale up and down.</p>	<p>Prior learning:</p> <p>Students will have seen fractions during KS2 – likely adding and subtracting with common denominators as well as simplifying.</p> <p>Minimal work will have been covered on this topic during KS2 – fractions of amounts is likely to have been covered by many students but terms such as proportional, ratio and scale maps will be new learning.</p>	<p>Key vocabulary:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1. Improper</td> <td style="width: 50%;">5. Terminating</td> </tr> <tr> <td>2. Proper</td> <td>6. Recurring</td> </tr> <tr> <td>3. Denominator</td> <td>7. Ascending</td> </tr> <tr> <td>4. Numerator</td> <td>8. Descending</td> </tr> <tr> <td>9. Proportion</td> <td>13. Part</td> </tr> <tr> <td>10. Ratio</td> <td>14. Simplify</td> </tr> <tr> <td>11. Scale</td> <td>15. Equivalent</td> </tr> <tr> <td>12. Factor</td> <td>16. Exchange</td> </tr> </table>	1. Improper	5. Terminating	2. Proper	6. Recurring	3. Denominator	7. Ascending	4. Numerator	8. Descending	9. Proportion	13. Part	10. Ratio	14. Simplify	11. Scale	15. Equivalent	12. Factor	16. Exchange
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<p>The big questions</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1. How can a terminating decimal be written as an exact?</td> <td style="width: 50%;">4. How does sharing in a ratio compare to pure division?</td> </tr> <tr> <td>2. What does a larger numerator mean in comparison to a larger denominator?</td> <td>5. How does exchange rates effect our view of prices in other countries?</td> </tr> <tr> <td>3. How can proportional reasoning be used within the real world?</td> <td>6. How can scale drawing allow us to understand the size of the world?</td> </tr> </table>				1. How can a terminating decimal be written as an exact?	4. How does sharing in a ratio compare to pure division?	2. What does a larger numerator mean in comparison to a larger denominator?	5. How does exchange rates effect our view of prices in other countries?	3. How can proportional reasoning be used within the real world?	6. How can scale drawing allow us to understand the size of the world?										
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Implement	<p>Order of learning</p> <ol style="list-style-type: none"> 1. Simplifying Fractions 2. Converting Mixed Fractions to Improper Fractions 3. Converting Improper Fractions to Mixed Fractions 4. Converting Fractions to Terminating Decimals 5. Converting Fractions to Recurring Decimals 6. Converting Terminating Decimals to Fractions 7. Ordering Positive and Negative Integers 8. Ordering Decimals 9. Ordering Fractions 10. Adding Fractions with a Common Denominator 11. Adding Fractions without a Common Denominator 12. Adding Mixed Numbers 13. Subtracting Fractions 14. Subtracting Mixed Numbers 15. Multiplying Fractions 16. Multiplying Mixed Numbers 17. Dividing Fractions 18. Dividing Mixed Numbers 19. Writing Proportion as Fractions 20. Multiplicative Relationships between Numbers 21. Unit Fractions of Amounts 22. Fractions of Amounts 23. Improper Fractions of Amounts 24. Find the Original Amount from Fractions 25. Express "x" as a fraction of "y" 26. Writing Ratio 27. Sharing in a Ratio 28. Find missing parts of a ratio 29. Find the whole when given a ratio 30. Drawing exchange rate graphs 31. Scale maps – reading 32. Scale maps – drawing 		<p>Differentiation G&T:</p> <p>Stretch questions for all topics as well as problem solving style questions.</p> <p>Disadvantaged:</p> <p>Equipment available in classroom for students arriving unprepared.</p> <p>SEND: Manipulatives available for students in certain context including number lines and counters.</p> <p>EAL:</p> <p>Translations of keywords where required and minimal use of unnecessary words throughout,</p>																
	<p>Assessment and homework</p> <p>40 mark assessment at the end of each topic covering all relevant areas and allowing students to check their understanding of the topic covered.</p> <p>Homework</p> <p>Weekly homework on Sparx Maths covering each of the sections taught during the previous week.</p>		<p>Feedback</p> <p>Verbal feedback during assessment week as well as self-correction during feedback lesson.</p>																
Impact	<p>Where will this be revisited?</p>																		
	<p>Fractions will be directly revisited as part Multiplicative Relationships in Year 7.</p> <p>Multiplicative Relationships will be revisited during Percentages/Proportion during Year 8.</p>																		