**9X3 / 9X4 / 9Y3**

**Half-Term 3**

**Proportional Reasoning**

**3rd January – 22nd January**

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| **Topic Area** | **Chapter Link** |
| Dividing in a given ratio 1 | <https://app.mymaths.co.uk/159-lesson/ratio-dividing-1> |
| Dividing in a given ratio 2 | <https://app.mymaths.co.uk/160-lesson/ratio-dividing-2> |
| Scaling and Rate | <https://app.mymaths.co.uk/5791-lesson/scaling-and-rate-problems> |
| Introduction to Proportion | <https://app.mymaths.co.uk/161-homework/proportion-introduction> |
| Unitary Method | <https://app.mymaths.co.uk/162-lesson/unitary-method> |

**Pattern Sniffing**

**23rd January – 5th February**

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| **Topic Area** | **Chapter Link** |
| Counting 4 | <https://app.mymaths.co.uk/38-lesson/counting-4> |
| Sequences | <https://app.mymaths.co.uk/237-lesson/sequences> |
| Geometric sequences | <https://app.mymaths.co.uk/1732-lesson/geometric-sequences-1> |
| Arithmetic sequences | <https://app.mymaths.co.uk/238-lesson/arithmetic-sequences> |
| Generating sequences | <https://app.mymaths.co.uk/1786-lesson/generating-sequences> |

**Investigate angles**

**6th February – 17th February**

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| **Topic Area** | **Chapter Link** |
|  |  |
| Angles 3 | https://app.mymaths.co.uk/5792-lesson/angles-3 |
| Angles 4 | https://app.mymaths.co.uk/5793-lesson/angles-4 |
| Measuring angles | https://app.mymaths.co.uk/254-lesson/measuring-angles |
| Angle sums | https://app.mymaths.co.uk/256-lesson/angle-sums |
| Angle reasoning | <https://app.mymaths.co.uk/257-lesson/angle-reasoning> |
| Angles in parallel lines | <https://app.mymaths.co.uk/258-lesson/angles-in-parallel-lines> |
| Interior exterior angles | <https://app.mymaths.co.uk/259-lesson/interior-exterior-angles> |
| Sum of angles in a polygon | <https://app.mymaths.co.uk/260-lesson/sum-of-angles-in-a-polygon> |

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**9X1 / 9X2 / 9Y1 / 9Y2**

**Half-Term 3**

**Solving Equations and Inequalities 1**

**3rd January – 18th January**

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| **Topic Area** | **Chapter Link** |
| Language of inequality (symbols used) | <https://app.mymaths.co.uk/232-lesson/inequations>  |
| Identify range of results that satisfy an inequality | <https://app.mymaths.co.uk/1740-lesson/inequalities-and-intervals> |
| Negative inequalities | <https://app.mymaths.co.uk/233-lesson/negative-inequations>  |
| Solve equations with unknowns each side | <https://app.mymaths.co.uk/188-lesson/equations-3-both-sides>  |
| Solve equations involving brackets  | <https://app.mymaths.co.uk/1734-lesson/equations-4-brackets>  |

**Calculating Space**

**19st January – 5th February**

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| **Topic Area** | **Chapter Link** |
| Parts of a circle | <https://app.mymaths.co.uk/6010-lesson/parts-of-a-circle>  |
| Circumference of circle | <https://app.mymaths.co.uk/269-lesson/circumference-of-a-circle>  |
| Area of circle | <https://app.mymaths.co.uk/270-lesson/area-of-a-circle>  |
| Arcs and Sectors | <https://app.mymaths.co.uk/1791-lesson/arcs-and-sectors>  |
| Surface Area | <https://app.mymaths.co.uk/334-lesson/nets-surface-area>  |
| Pythagoras | <https://app.mymaths.co.uk/300-lesson/pythagoras-theorem>  |

**Conjecturing**

**6st February – 17th February**

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| **Topic Area** | **Chapter Link** |
| Angle reasoning | <https://app.mymaths.co.uk/257-lesson/angle-reasoning> |
| Angle proofs | <https://app.mymaths.co.uk/261-lesson/angle-proofs> |
| Congruent triangle | <https://app.mymaths.co.uk/247-lesson/congruent-triangles> |
| Similar triangles | <https://app.mymaths.co.uk/306-lesson/similar-triangles> |

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