

Scheme Of Work 2020-2021

Subject: Maths

Year Group: 7

Specification: KS3 Maths Progress Delta

Active Learning Opportunities

Year 1

| Lesson No | Topic & Objectives | Key Activities & Specialist Terminology | Big Think Q's & Stretch | GCSE Q Stem | Homework |
|-----------|--|---|---|---|----------------------------------|
| 12hrs | | Equations, functions And Formulae | | | |
| S & C | Simplify expressions by collecting like terms. Corbettmaths Worksheets | 3.1 Simplifying algebraic expressions Text book exercises , Differentiated to correct level of challenge | | TEQ - Show understanding of worded questions and | Monopolise your homework Sheet 3 |
| S & C | Construct expressions using four operations. Corbettmaths Worksheets | 3.2 Writing algebraic expressions Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards, Coaching, Independent Study, Student teachers etc Text book exercises , Differentiated to correct level of challenge | johns age is N His sister ann is 4 times his age . His brother briar is 6 years | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 3 |

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| | Substitute into formulae. | 3.3 STEM: Using formulae Do Now: Numeracy Ninja TEQ (Typical exam question) <i>Show me boards, Coaching, Independent Study, Student teachers etc</i> | Do Plenary: | brother Brian is 6 years younger than ann. Colin is half Brians age. Write an expression in terms of N for Ann Brian & Colin's ages | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 3 |
| S & C | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | | | | |
| 2hrs | Derive formulae from a description. | 3.4 Writing formulae Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) <i>Show me boards, Coaching, Independent Study, Student teachers etc</i> | Do Now: Plenary: TEQ | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 3 |
| S & C | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | | Apply Questions differentiated to correct level of challenge | | |

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| 1hr | Expand expressions involving brackets. | 3.5 Brackets and powers | Create the hardest possible question on this topic | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 3 |
| | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | | TEQ - Show understanding of worded questions and how marking schemes test working practices | |
| | Substitute into expressions involving powers. | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | Monopolise your homework Sheet 3 |

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| | Factorise an algebraic expression. | 3.6 Factorising expressions | Write a how to guide on factorising. | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 3 |
| Lesson No | Topic & Objectives | Key Activities & Specialist Terminology | Big Think Q's & Stretch | GCSE Q Stem | Homework |
| 12hrs | | Fractions | | | |
| | Compare and simplify fractions. | 4.1 Working with fractions | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| S & C | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | | | |

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| <p>2hrs</p> <p>S & C</p> | <p>Write one number as a fraction of another.</p> <p>Corbettmaths Worksheets</p> | <p>Text book exercises , Differentiated to correct level of challenge</p> | <p>4/5 of 1060</p> | <p>TEQ - Show understanding of worded questions and how marking schemes test working practices</p> | <p>Monopolise your homework Sheet 4</p> |
| | <p>Work out simple fractions of amounts.</p> | <p>Text book exercises , Differentiated to correct level of challenge</p> | | <p>TEQ - Show understanding of worded questions and how marking schemes test working practices</p> | <p>Monopolise your homework Sheet 4</p> |
| <p>S & C</p> | <p>Corbettmaths Worksheets</p> | <p>Text book exercises , Differentiated to correct level of challenge</p> | <p>Apply Questions differentiated to correct level of challenge</p> | | |

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| | Write an improper fraction as a mixed number. | 4.2 Adding and subtracting fractions | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| S & C | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | | |
| | Add and subtract fractions. | | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| S & C | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | | |

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| 1hr | Work with equivalent fractions, decimals and percentages. | 4.3 Fractions, decimals and percentages | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| | Corbettmaths Worksheets | | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | |
| | Use division to write a fraction as a decimal. | | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| S & C | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | | |

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| 2hrs | Work out fractions of amounts. | 4.4 Multiplying and dividing fractions | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | | |
| | Divide an integer and a fraction by a fraction. | | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | | |

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| | Multiply a fraction by a fraction. | | $5/8 \times 5/7$ | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| S & C | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | | |
| 1hr | Add and subtract mixed numbers. | 4.5 Working with mixed numbers | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | | | |

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| | Enter time as a mixed number into a calculator. | | You are travelling at 70 miles an hour you are 10 miles from your destination. If you constantly travel at 70miles an hour how long untill you arrive? | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| S & C | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | | | |
| 2hrs | Multiply and divide a mixed number. | | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 4 |
| Lesson No | Topic & Objectives | Key Activities & Specialist Terminology | Big Think Q's & Stretch | GCSE Q Stem | Homework |
| 12hrs | | Angles & Shapes | | | |

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| | <p>Work out unknown angles when two or more lines meet or cross at a point.</p> <p>Corbettmaths Worksheets</p> <p>Work out unknown angles involving parallel lines.</p> <p>Corbettmaths Worksheets</p> | <p>5.1 Angles and parallel lines</p> <p>Text book exercises , Differentiated to correct level of challenge</p> <p>Text book exercises , Differentiated to correct level of challenge</p> | <p>Use your new found knowledge to prove that a triangle is made up of 180 degrees</p> <p>Apply Questions differentiated to correct level of challenge</p> | <p>TEQ - Show understanding of worded questions and how marking schemes test working practices</p> <p>TEQ - Show understanding of worded questions and how marking schemes test working practices</p> | <p>Monopolise your homework Sheet 5</p> <p>Monopolise your homework Sheet 5</p> |
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| 2hrs | Describe the line and rotational symmetry of triangles. | 5.2 Triangles | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 5 |
| | Understand how to prove that a result is true. | | <p>Corbettmaths Worksheets</p> <p>Text book exercises , Differentiated to correct level of challenge</p> <p>Corbettmaths Worksheets</p> <p>Text book exercises , Differentiated to correct level of challenge</p> | <p>TEQ - Show understanding of worded questions and how marking schemes test working practices</p> <p>Create the hardest possible question on this topic</p> | Monopolise your homework Sheet 5 |

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| | Use properties of a triangle to work out unknown angles. | | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 5 |
| correct level of | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | | | |
| | Use the properties of isosceles and equilateral triangles to solve problems. | | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 5 |
| | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | | |

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| 2hrs | Describe the line and rotational symmetry of quadrilaterals. | 5.3 Quadrilaterals | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 5 |
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| | Describe the properties of quadrilaterals. | | | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 5 |
| | | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | |
| S & C | Solve problems involving quadrilaterals. | | | TEQ - Show understanding | Monopolise your |
| S & C | Corbettmaths Worksheets | Text book exercises , Differentiated to correct level of challenge | Apply Questions differentiated to correct level of challenge | | |

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| | Work out the interior and exterior angles of a polygon. | 5.4 Polygons | Find a Rule to workout the exterior angles of regular polygons | TEQ - Show understanding of worded questions and how marking schemes test working practices | Monopolise your homework Sheet 5 |
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