# Key Stage 3 Curriculum Map 2020 - 2021

## Term 1

| Subject: Mathematics | Year: 7 | | |
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| **Focus/Topic** | **Objectives** | **Key Skills** | **Home Learning / Reading** |
| • Negative Numbers | To be able to add and subtract negative numbers.<br>To be able to multiply and divide negative numbers. | Apply knowledge of negative numbers to real life context; thermometers, bank accounts etc. | • Dr Frost Maths<br>• Corbett Maths<br>• CGP Workbooks<br>• Problem Solving activities |
| • Multiplication and Division of Integers | To be able to use the area model to multiply integers.<br>To use long division for division. | To consistently use the area model for any multiplication.<br>To consistently use long division for any division question. | |
| • Appreciation of Number Systems | To have a knowledge of Roman Numerals and Binary. | To have an appreciation of other culture's number systems. | |
| • Fractions, Decimals and Percentages | To be able to convert between fractions, decimals and percentages using a variety of methods. | To understand and appreciate the equivalence of fractions, decimals and percentages. | |
| • Percentages of amounts | To be able to find percentages of amounts. | To apply knowledge to real life problems involving money. | |
| Half Term | | | |
| • Ratio | To be able to share amounts in different ratios.<br>To be able to use ratio to solve recipe questions. | To apply knowledge to real life problems involving money, ratio and proportion. | |
| • Properties of 2D Shapes | To know the properties of triangles, quadrilaterals and other common 2D shapes. | To recall basic properties fluently. | |

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| • Area of Triangles and Quadrilaterals | To be able to find the area of any triangle.<br>To be able to find the area of any quadrilateral. | To apply this knowledge to real life problems involving area. | • Dr Frost Maths<br>• Corbett Maths<br>• CGP Workbooks Problem Solving activities |
| • Area & Perimeter of Rectilinear Shapes | To be able to partition compound shapes into triangles and quadrilaterals. | To apply this knowledge to real life problems involving area and perimeter. | |
| • Volume & Surface Area of a Cuboid | To be able to find the surface area of a cuboid.<br>To be able to find the volume of a cuboid. | To apply this knowledge to real life problems involving measurements. | |
| Winter Break | | | |