

West Moors Middle School - Curriculum Component Profile



Subject: Maths	Year: 6
<p>Description of learning</p> <p>By the end of Y6, a child should be fluent in formal written methods for all four operations including long multiplication and division and in working with fractions, decimals and percentages and ratios, and make connections between them.</p> <p>A child should be able to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient written and mental methods of calculation.</p> <p>A child is beginning to use the language of algebra as a tool for solving a variety of problems</p> <p>A child can: - Classify shapes with increasingly complex geometric properties and use the vocabulary needed to describe them; and - Read, spell and pronounce mathematical vocabulary correctly</p>	
<p>Important questions:</p> <p>What are fractions and how can we apply our knowledge of equivalents to assist calculations?</p> <p>How can our knowledge of factors and multiples be used to help with long multiplication and division?</p>	<p>Bigger picture and linking:</p> <p>Pupils are prepared for SATS tests by focusing on key arithmetic skills and the ability to interpret reasoning questions.</p>
<p>Overlearning required:</p> <p>Pupils will need to have a fluent understanding of the four operations and be able to interpret worded questions to apply calculations over a number of steps.</p> <p>Pupils should be able to use pictorial methods to help visualise questions - such as the bar model methods.</p>	<p>WoW factor:</p> <p>Pupils will be engaged in post SATS projects that allow the application of learnt skills within a range of 'real-life' projects - such as the project 'Sim Farm'.</p> <p>All pupils are provided access to Times Table Rock Stars - this pupil centred application encourages regular practice of multiplication and division. The software package includes supporting worksheets and pupil tracking.</p>
<p>How will our learning values be developed?</p> <p>Pupils will be encouraged to develop their independence through mathematical toolkits provided on desks. Toolkits will enable pupils to select the equipment best suited to helping interpret question types.</p>	<p>How will our community values be developed?</p> <p>Pupils will demonstrate respect when working in groups and understand the various dynamics that enable group work to be successful.</p> <p>Pupils will engage in real-life scenarios using sensitivity where needed such as when discussing personal finance.</p>
<p>How will pupils' numeracy be developed?</p> <p>N/A</p>	<p>How will pupils' literacy be developed?</p> <p>A child is beginning to use the language of algebra as a tool for solving a variety of problems</p> <p>A child can: - Classify shapes with increasingly complex geometric properties and use the vocabulary needed to describe them; and - Read, spell and pronounce mathematical vocabulary correctly</p> <p>Appropriate use of mathematical language that is used consistently across the department.</p> <p>Key vocabulary is incorporated within our SPAG focus for books.</p>