

West Moors Middle School - Curriculum Component Profile



Subject: Maths	Year: 5
<p>By the end of Y5, a child should be fluent in formal written methods for addition and subtraction. Using a developing knowledge of formal methods of multiplication and division, a child should be able to solve problems including properties of numbers and arithmetic.</p> <p>A child can:</p> <ul style="list-style-type: none"> - make connections between fractions, decimals and percentages; - classify shapes with geometric properties and use the vocabulary needed to describe them; and - read, spell and pronounce mathematical vocabulary correctly. 	
<p>Important questions:</p> <p>Why and how do we round numbers to a degree of accuracy?</p> <p>How can numerical information be presented?</p> <p>What do the terms mixed and improper mean in relation to fractions?</p> <p>How can understanding of angles help with parallel and perpendicular lines?</p>	<p>Bigger picture and linking:</p> <p>Pupils build on their understanding of place value to ensure that they can round numbers to a variety of degrees of accuracy.</p> <p>Pupils are more able to compare numbers and use greater understanding of place value to make estimates and predictions.</p> <p>Pupils ability to understand and solve worded problems becomes more efficient as their mathematical flexibility improves.</p>
<p>Overlearning required:</p> <p>Pupils will overlearn the formal methods of column addition and subtraction using numbers to challenge their individual ability level.</p> <p>Pictorial methods such as the bar model will be used to consistently to reinforce its use for interpreting a range of question types.</p>	<p>WoW factor:</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>Linking prior learning from our feeder schools Using Year 4 Inspire resources to inform planning Opportunities for pupils to work collaboratively with others.</p>
<p>How will pupils' numeracy be developed?</p> <p>N/A</p>	<p>How will pupils' literacy be developed?</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>