

## Mathematics



Prior Learning	
<p>This unit will build on the knowledge and skills learned in Year 3. Prior learning will be the mental knowledge of their multiplication tables. This term will also build on the children's prior knowledge of recognising and writing fractions using a discrete set of objects and diagrams, their ability to recognise tenths and count up and down in tenths as well as comparing and ordering unit fractions.</p>	
Key vocabulary for this unit	
Multiply Product Of Divide Factors Bus-stop method Correspondence Nominator	Denominator Improper Fraction Unit fraction Non-unit fraction Mixed number Equivalent Simplify
Learning Sequence	
Multiplication	<ul style="list-style-type: none"> <li>• To know to slide the digits to the right when multiplying by 10 and 100.</li> <li>• To recognise and use factor pairs.</li> <li>• To multiply two-digit and three-digit numbers by a one-digit number using a formal written layout.</li> <li>• To multiply together three numbers.</li> <li>• To solve problems involving multiplication.</li> <li>• To solve correspondence problems.</li> </ul>
Division	<ul style="list-style-type: none"> <li>• To know to slide the digits to the left when dividing by 10 and 100.</li> <li>• To divide two-digit and three-digit numbers by a one-digit number using a formal written layout.</li> <li>• To solve problems involving division.</li> </ul>
Fractions	<ul style="list-style-type: none"> <li>• To recognise and show using diagrams families of common equivalent fractions.</li> <li>• To add and subtract fractions with the same denominator.</li> <li>• To count up and down in hundredths.</li> </ul>

	<ul style="list-style-type: none"> <li>• To solve problems by calculating fractions of amounts, including non-unit fractions.</li> </ul>
Mental Multiplication and Division	<ul style="list-style-type: none"> <li>• Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> <li>• Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1.</li> </ul>
Assessment milestones	
<p><b>Mathematical Skills:</b></p> <ul style="list-style-type: none"> <li>• To solve problems involving multiplication and division.</li> <li>• To solve correspondence problems.</li> <li>• To identify, represent common equivalent fractions using different representations.</li> <li>• To calculate unit fractions and non-unit fractions of quantities.</li> </ul>	<p><b>Mathematical Knowledge:</b></p> <ul style="list-style-type: none"> <li>• To know some factor pairs.</li> <li>• To multiply and divide using the formal written methods.</li> <li>• To recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>• To know how to multiply and divide by 10 and 100.</li> <li>• To know what a unit fraction, non-unit fraction, improper fraction and a mixed number is.</li> </ul>