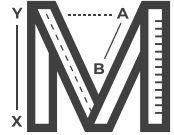
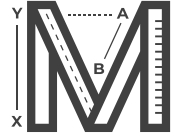


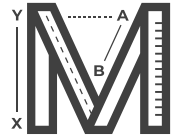
| AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 | AREs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|---------------------|----------|-------------------------|----------|---------------------------------|--------|----------------|--------|-----------------------|--------|---------------|--------|---------------------|--------|--|--------|--|--------|--|---------|--|---------|--|---------|--|--|------------|--------|-------------------|--------|-----------------|--------|-------------------------|--------|-------------------|--------|--------------------|--------|--|--------|--|--------|--|--------|--|---------|--|---------|--|---------|---|--|------------------|--------|---------------|--------|-----------------------------------|--------|----------------------|--------|--------------------------|--------|------------------|--------|---------------|--------|--|--------|--|--------|--|---------|--|---------|--|---------|--|
| <p>Big Question Autumn 1: Who am I and who is in my family?</p> <p>Big Question Autumn 2: Is it always dark at night time?</p> <table border="1" data-bbox="179 542 593 1093"> <tr><td>GETTING TO KNOW YOU</td><td>1 WEEK</td></tr> <tr><td>MATCH, SORT AND COMPARE</td><td>2 WEEK</td></tr> <tr><td>TALK ABOUT MEASURE AND PATTERNS</td><td>3 WEEK</td></tr> <tr><td>IT'S ME 1 2 3!</td><td>4 WEEK</td></tr> <tr><td>CIRCLES AND TRIANGLES</td><td>5 WEEK</td></tr> <tr><td>1, 2, 3, 4, 5</td><td>6 WEEK</td></tr> <tr><td>SHAPES WITH 4 SIDES</td><td>7 WEEK</td></tr> <tr><td></td><td>8 WEEK</td></tr> <tr><td></td><td>9 WEEK</td></tr> <tr><td></td><td>10 WEEK</td></tr> <tr><td></td><td>11 WEEK</td></tr> <tr><td></td><td>12 WEEK</td></tr> </table> | | GETTING TO KNOW YOU | 1 WEEK | MATCH, SORT AND COMPARE | 2 WEEK | TALK ABOUT MEASURE AND PATTERNS | 3 WEEK | IT'S ME 1 2 3! | 4 WEEK | CIRCLES AND TRIANGLES | 5 WEEK | 1, 2, 3, 4, 5 | 6 WEEK | SHAPES WITH 4 SIDES | 7 WEEK | | 8 WEEK | | 9 WEEK | | 10 WEEK | | 11 WEEK | | 12 WEEK | <p>Big Question Spring 1: How will I know my way around?</p> <p>Big Question Spring 2: How do things grow from seeds?</p> <table border="1" data-bbox="772 542 1176 1093"> <tr><td>ALIVE IN 5</td><td>1 WEEK</td></tr> <tr><td>MASS AND CAPACITY</td><td>2 WEEK</td></tr> <tr><td>GROWING 6, 7, 8</td><td>3 WEEK</td></tr> <tr><td>LENGTH, HEIGHT AND TIME</td><td>4 WEEK</td></tr> <tr><td>BUILDING 9 AND 10</td><td>5 WEEK</td></tr> <tr><td>EXPLORE 3-D SHAPES</td><td>6 WEEK</td></tr> <tr><td></td><td>7 WEEK</td></tr> <tr><td></td><td>8 WEEK</td></tr> <tr><td></td><td>9 WEEK</td></tr> <tr><td></td><td>10 WEEK</td></tr> <tr><td></td><td>11 WEEK</td></tr> <tr><td></td><td>12 WEEK</td></tr> </table> | | ALIVE IN 5 | 1 WEEK | MASS AND CAPACITY | 2 WEEK | GROWING 6, 7, 8 | 3 WEEK | LENGTH, HEIGHT AND TIME | 4 WEEK | BUILDING 9 AND 10 | 5 WEEK | EXPLORE 3-D SHAPES | 6 WEEK | | 7 WEEK | | 8 WEEK | | 9 WEEK | | 10 WEEK | | 11 WEEK | | 12 WEEK | <p>Big Question Summer 1: Who are the people that help us?</p> <p>Big Question Summer 2: Can I huff and puff and blow your house down?</p> <table border="1" data-bbox="1355 542 1758 1093"> <tr><td>TO 20 AND BEYOND</td><td>1 WEEK</td></tr> <tr><td>HOW MANY NOW?</td><td>2 WEEK</td></tr> <tr><td>MANIPULATE, COMPOSE AND DECOMPOSE</td><td>3 WEEK</td></tr> <tr><td>SHARING AND GROUPING</td><td>4 WEEK</td></tr> <tr><td>VISUALISE, BUILD AND MAP</td><td>5 WEEK</td></tr> <tr><td>MAKE CONNECTIONS</td><td>6 WEEK</td></tr> <tr><td>CONSOLIDATION</td><td>7 WEEK</td></tr> <tr><td></td><td>8 WEEK</td></tr> <tr><td></td><td>9 WEEK</td></tr> <tr><td></td><td>10 WEEK</td></tr> <tr><td></td><td>11 WEEK</td></tr> <tr><td></td><td>12 WEEK</td></tr> </table> | | TO 20 AND BEYOND | 1 WEEK | HOW MANY NOW? | 2 WEEK | MANIPULATE, COMPOSE AND DECOMPOSE | 3 WEEK | SHARING AND GROUPING | 4 WEEK | VISUALISE, BUILD AND MAP | 5 WEEK | MAKE CONNECTIONS | 6 WEEK | CONSOLIDATION | 7 WEEK | | 8 WEEK | | 9 WEEK | | 10 WEEK | | 11 WEEK | | 12 WEEK | <p>By the end of Reception children should be able to:</p> <ul style="list-style-type: none"> • Have a deep understanding of numbers to 10, including the composition of each number. • Subitise (recognise quantities without counting) up to 5. • Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. • Verbally count beyond 20, recognising the pattern of the counting system. • Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. • Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. |
| GETTING TO KNOW YOU | 1 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MATCH, SORT AND COMPARE | 2 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TALK ABOUT MEASURE AND PATTERNS | 3 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IT'S ME 1 2 3! | 4 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CIRCLES AND TRIANGLES | 5 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1, 2, 3, 4, 5 | 6 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHAPES WITH 4 SIDES | 7 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALIVE IN 5 | 1 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MASS AND CAPACITY | 2 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROWING 6, 7, 8 | 3 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LENGTH, HEIGHT AND TIME | 4 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUILDING 9 AND 10 | 5 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EXPLORE 3-D SHAPES | 6 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TO 20 AND BEYOND | 1 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HOW MANY NOW? | 2 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MANIPULATE, COMPOSE AND DECOMPOSE | 3 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHARING AND GROUPING | 4 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VISUALISE, BUILD AND MAP | 5 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAKE CONNECTIONS | 6 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONSOLIDATION | 7 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 WEEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



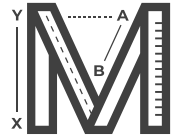
| AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 | AREs |
|--|--|--|--|--|--|--|
| <p>Big Question: What do I know about the UK and where I live?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Place Value within 10</u></p> <ul style="list-style-type: none"> Sort and count objects Count objects from a larger group Represent objects Recognise number as words Count on from any number 1 more Count backwards within 10 1 less Compare groups by matching Fewer, more, same Less than, greater than, equal to Compare numbers Order objects and numbers The number line | <p>Big Question: Why are some places in the world always hot and others always cold?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Addition and Subtraction (within 10)</u></p> <ul style="list-style-type: none"> Introduce parts and wholes Part-whole model Whole number sentences Fact families - addition facts Number bonds within 10 Number bonds to 10 Addition - add together Addition - add more Addition problems Find a part Subtraction - find a part Fact families - the eight facts Subtraction - take away/cross out (how many left) Subtraction - take away (how many left) Subtraction on a number line Add and subtract 1 or 2 <p><u>Shape</u></p> <ul style="list-style-type: none"> Recognise and name 3D shapes Sort 3D shapes Recognise and name 2D shapes Sort 2D shapes Patterns with 2D and 3D shapes | <p>Big Question: Who were and are the famous people of Leeds?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Place Value within 20</u></p> <ul style="list-style-type: none"> Count within 20 Understand 10 Understand 11, 12 and 13 Understand 14, 15 and 16 Understand 17, 18 and 19 Understand 20 1 more and 1 less The number line to 20 Use a number line to 20 Estimate on a number line to 20 Compare numbers to 20 Order numbers to 20 <p><u>Addition and Subtraction (within 20)</u></p> <ul style="list-style-type: none"> Add by counting on within 20 Add ones using number bonds Find and make number bonds to 20 Doubles Near doubles Subtract ones using number bonds Subtraction - Counting back Subtraction - finding the difference Related facts Missing number problems | <p>Big Question: What do we recycle?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Place Value within 50</u></p> <ul style="list-style-type: none"> Count from 20 to 50 20, 30, 40 and 50 Count by making groups of tens Groups of tens and ones Partition into tens and ones The number line to 50 Estimate on a number line to 50 1 more, 1 less Length and Height Compare lengths and heights Measure length using objects Measure lengths in centimetres <p><u>Mass and Volume</u></p> <ul style="list-style-type: none"> Heavier and lighter Measure mass Compare mass Full and empty Compare volume Measure capacity Compare capacity | <p>Big Question: What was my grandparents' childhood like?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Multiplication and Division</u></p> <ul style="list-style-type: none"> Make equal groups Add equal groups Make arrays Make doubles Make equal groups 0 grouping Make equal groups - sharing <p><u>Fractions</u></p> <ul style="list-style-type: none"> Find a half Find a half of a quantity Make a quarter Find a quarter Position and Direction Describe turns Describe position | <p>Big Question: Why do we have castles?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Place Value within 100</u></p> <ul style="list-style-type: none"> Counting to 100 Counting forwards and backwards within 100 Introducing 100 square Partitioning numbers Comparing numbers Ordering numbers One more, one less <p><u>Money</u></p> <ul style="list-style-type: none"> Recognising coins Recognising notes Counting in coins Time Before and after Dates Time to the hour Time to the half hour Writing time Comparing time | <p>By the end of Year 1 children should be able to:</p> <ul style="list-style-type: none"> Count to and across 100, forwards and backwards from any number Read and write numbers to 20 in numerals and words. Read and write numbers to 100 in numerals. Say 1 more/1 less to 100 Count in multiples of 1, 2, 5 and 10 Use bonds and subtraction facts to 20. Add and subtract: 1/ digit and 2-digit numbers to 20, including zero. 2/ Solve one-step multiplication and division using objects, pictorial representations and arrays. Recognise half and quarter of object, shape or quantity. Recognise and name 2D shapes: circle, triangle, square and rectangle Recognise and name 3D shapes: cuboid, pyramid, sphere. Sequence events in chronological order. Use language of day, week, month and year. Tell time to hour and half past. Recognise all coins. |



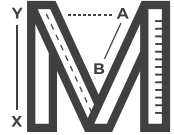
| AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 | AREs |
|--|---|---|---|--|--|---|
| <p>Big Question: Who are the famous people that have made an impact worldwide?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Place Value</u></p> <ul style="list-style-type: none"> Numbers to 20 Count objects to 100 by making 10s Recognise tens and ones Use a place value chart Partition numbers to 100 Write numbers to 100 in words Flexibly partition numbers to 100 Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100 Estimate numbers on a number line Compare objects Compare numbers Order objects and numbers Count in 2s, 5s and 10s Count in 3s | <p>Big Question: What have we learnt from the Great Fire of London?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Addition and Subtraction</u></p> <ul style="list-style-type: none"> Bonds to 10 Fact families - addition and subtraction bonds within 20 Related facts Bonds to 100 (tens) Add and subtract 1s Add by making 10 Add three 1-digit numbers Add to the next 10 Add across a 10 Subtract across 10 Subtract from a 10 Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less Add and subtract 10s Add two 2-digit numbers (across a 10) Subtract two 2-digit numbers (not across a 10) Subtract two 2-digit numbers (across a 10) Mixed addition and subtraction Compare number sentences Missing number problems <p><u>Shape</u></p> <ul style="list-style-type: none"> Recognise 2D and 3D shapes Count sides on 2D shapes Count vertices on 2D shapes Draw 2D shapes Lines of symmetry on shapes Use lines of symmetry to complete shapes Sort 2D shapes Count faces on 3D shapes Count edges on 3D shapes Count vertices on 3D shapes Sort 3D shapes Make patterns with 2D and 3D shapes | <p>Big Question: How can we compare city and village life on different continents?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Money</u></p> <ul style="list-style-type: none"> Count money - pence Count money - pounds (notes and coins) Count money - pounds and pence Choose notes and coins Make the same amount Compare amounts of money Calculate with money Make a pound Find change Two-step problems <p><u>Multiplication and Division</u></p> <ul style="list-style-type: none"> Recognise equal groups Make equal groups Add equal groups Introduce the multiplication symbol Multiplication sentences Use arrays Make equal groups - groupings Make equal groups - sharing The 2 times-tables Divide by 2 Doubling and halving Odd and even numbers The 10 times-table Divide by 10 The 5 times-table Divide by 5 The 5 and 10 times tables | <p>Big Question: What goes on at an airport or a train station?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Length and Height</u></p> <ul style="list-style-type: none"> Measure in centimetres Measure in metres Compare lengths and heights Order lengths and heights Four operations with lengths and heights <p><u>Mass, Capacity and Temperature</u></p> <ul style="list-style-type: none"> Compare mass Measure in grams Measure in kilograms Four operations with mass Compare volume and capacity Measure in millilitres Measure in litres Four operations with volume and capacity Temperature | <p>Big Question: How did the Victorians influence our lives today?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Fractions</u></p> <ul style="list-style-type: none"> Make equal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Unit fractions Non-unit fractions Evidence of a half and 2 quarters Find three quarters Count in fractions <p><u>Time</u></p> <ul style="list-style-type: none"> O'clock and half past Quarter past and quarter to Telling time to 5 minutes Hours and days Find duration of time Complete durations of time | <p>Big Question: Why do we love to be beside the seaside?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Statistics</u></p> <ul style="list-style-type: none"> Make tally charts Draw pictograms (1-1) Draw pictograms (2.5 and 10) Block diagrams <p><u>Position and Direction</u></p> <ul style="list-style-type: none"> Describing movement Describing turns Describing movement and turns Making patterns with shapes | <p>By the end of Year 2 children should be able to:</p> <ul style="list-style-type: none"> Compare & order numbers up to 100 and use $<$ $>$ $=$. Read & write all numbers to 100 in digits & words. Say 10 more/less than any number to 100. Count in steps of 2, 3 & 5 from any number up to 100 and in 10s from any number (forward/backward). Recall & use multiplication & division facts for 2, 5 & 10 tables Derive & use related facts to 100. Recognise PV of any 2-digit number. Add & subtract: 2-digit nos & ones 2-digit nos & tens Two 2-digit nos Three 1-digit nos Calculate & write multiplication & division calculations using multiplication tables. Write & recognise & use inverse. Recognise, find, name & write $1/3$; $1/4$; $2/4$; $3/4$. Recognise equivalence of simple fractions. Describe the properties of 2D and 3D shapes to include edges, vertices and faces. Tell time to five minutes, including quarter past/to. Recognise and use the symbols £ and p when solving problems involving addition and subtraction of money. I can choose and use appropriate standard units to estimate length, height, temperature and capacity Interpret and construct pictograms, tally charts, block diagram and simple tables. |



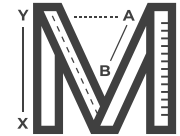
| AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 | AREs |
|--|--|--|--|--|---|---|
| <p>Big Question: How have our homes changed over time?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Place Value</u></p> <ul style="list-style-type: none"> Represent numbers to 100 Partition numbers to 100 Number line to 100 Hundreds Represent numbers to 1000 Partition numbers to 1000 Flexible partitioning of numbers to 1000 Hundreds, tens and ones Find 1, 10 or 100 more or less Number line to 1000 Estimate on a number line to 1000 Compare numbers to 1000 Order numbers to 1000 | <p>Big Question: How did Britain change between the beginning of the Stone Age and the end of the Iron Age?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Addition and Subtraction</u></p> <ul style="list-style-type: none"> Apply number bonds within 10 Add and subtract 1s Add and subtract 10s Add and subtract 100s Spot the pattern Add 1s across a 10 Add 10s across a 100 Subtract 1s across a 10 Subtract 10s across a 100 Make connections Add two numbers (no exchange) Subtract two numbers (no exchange) Add two numbers (across a 10) Subtract two numbers (across a 10) Subtract two numbers (across a 100) Add 2-digit and 3-digit numbers Subtract 2-digit numbers from a 3-digit number Complements to 100 Estimate answers Inverse operations Make decisions <p><u>Multiplication and Division A</u></p> <ul style="list-style-type: none"> Multiplication – equal groups Use arrays Multiples of 2 Multiples of 5 and 10 Sharing and grouping Multiply by 3 Divide by 3 The 3 times-table Multiply by 4 Divide by 4 The 4 times-table Multiply by 8 Divide by 8 The 8 times-table The 2, 4 and 8 times-tables | <p>Big Question: How do we energise our homes and country?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Multiplication and Division B</u></p> <ul style="list-style-type: none"> Multiples of 10 Related calculations Reasoning and multiplication Multiply a 2-digit number by a 1-digit number – no exchange Multiply a 2-digit number by a 1-digit number – with exchange Link multiplication and division Divide a 2-digit number by a 1-digit number – no exchange Divide a 2-digit number by a 1-digit – flexible partitioning Divide a 2-digit number by a 1-digit number – with remainders Scaling How many ways? <p><u>Length and Perimeter</u></p> <ul style="list-style-type: none"> Measure in metres and centimetres Measure in millimetres Measure in centimetres and millimetres Metres, centimetres and millimetres Equivalent lengths (metres and centimetres) Equivalent lengths (centimetres and millimetres) Compare lengths Add lengths Subtract lengths What is perimeter? Measure perimeter Calculate perimeter | <p>Big Question: What did the Ancient Greeks bring to the world?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Fractions A</u></p> <ul style="list-style-type: none"> Understand the denominators of unit fractions Compare and order unit fractions Understand the numerators of non-unit fractions Understand the whole Compare and order non-unit fractions Fractions and scales Fractions on a number line Count in fractions on a number line Equivalent fractions on a number line Equivalent fractions as bar models <p><u>Mass and Capacity</u></p> <ul style="list-style-type: none"> Use scales Measure mass in grams Measure mass in kilograms and grams Equivalent masses (kilograms and grams) Compare mass Add and subtract mass Measure capacity and volume in millilitres Measure capacity and volume in litres and millilitres Equivalent capacities and volumes (litres and millilitres) Compare capacity and volume Add and subtract capacity and volume | <p>Big Question: How are rivers formed?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Fractions B</u></p> <ul style="list-style-type: none"> Making the whole Tenths Tenths as decimals Fractions on a number line Fractions of a set of objects Equivalent fractions Compare fractions Order fractions Add fractions Subtract fractions <p><u>Money</u></p> <ul style="list-style-type: none"> Pounds and pence Convert pounds and pence Add money Subtract money Give change <p><u>Time</u></p> <ul style="list-style-type: none"> Months and years Hours in a day Telling the time to 5 minutes Telling the time to the minute Using a.m. and p.m. 24 hour clock Finding the duration Comparing durations Start and end times Measuring time in seconds Problem solving with time | <p>Big Question: Why do so many British people go to the Mediterranean for their holidays?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Shape</u></p> <ul style="list-style-type: none"> Turns and angles Right angles in shapes Compare angles Draw accurately Horizontal and vertical Parallel and perpendicular Recognise and describe 2D shapes Recognise and describe 3D shapes Make 3D shapes <p><u>Statistics</u></p> <ul style="list-style-type: none"> Pictograms Bar charts Tables | <p>By the end of Year 3 children should be able to:</p> <ul style="list-style-type: none"> Compare & order numbers up to 1,000. Read & write all numbers to 1,000 in digits & words. Find 10 or 100 more/less than a given number Count from 0 in multiples of 4, 8, 50 & 100. Recall & use multiplication & division facts for 3, 4, 8 tables. Recognise PV of any 3-digit number. Add & subtract: 3-digit nos & ones 3-digit nos & tens 3-digit nos & hundreds Add & subtract: Numbers with up to 3-digits using written columnar method. Estimate and use inverse to check. Multiply: 2-digit by 1-digit Count up/down in tenths. Compare & order fractions with same denominator. +/- fractions with same denominator within one whole. Identify right angles and compare other angles as greater or smaller than a right angle. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. Tell time using 12- and 24-hour clocks; and using Roman numerals. Tell time to nearest minute. Know number of days in each month and number of seconds in a minute. Measure, compare, add and subtract using common metric measures. Solve one and two step problems using information presented in scaled bar charts, pictograms and tables. |



| AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 | AREs |
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| <p>Big Question: How did Leeds grow into one of the UK's leading cities?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Place Value</u></p> <ul style="list-style-type: none"> Represent numbers to 1000 Partition numbers to 1000 Number lines to 1000 Thousands Represent numbers to 10,000 Partition numbers to 10,000 Flexible partitioning of numbers to 10,000 Find 1, 10, 100, 1000 more or less Number line to 10,000 Estimate on a number line to 10,000 Compare numbers to 10,000 Order numbers to 10,000 Roman numerals Round to the nearest 10 Round to the nearest 100 Round to the nearest 1000 Round to the nearest 10, 100 or 1000 | <p>Big Question: Where would you choose to build a city?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Addition and Subtraction</u></p> <ul style="list-style-type: none"> Add and subtract 1s, 10s, 100s and 1000s Add up to two 4-digit numbers – no exchange Add two 4-digit numbers – one exchange Add two 4-digit numbers – more than one exchange Subtract two 4-digit numbers – no exchange Subtract two 4-digit numbers – one exchange Efficient subtraction Estimate answers Checking strategies <p><u>Area</u></p> <ul style="list-style-type: none"> What is area? Count squares Make shapes Compare areas <p><u>Multiplication and Division A</u></p> <ul style="list-style-type: none"> Multiplies of 3 Multiply and divide by 6 6 times-table and division facts Multiply and divide by 9 9 times-table and division facts The 3, 6 and 9 times-tables Multiply and divide by 7 7 times-table and division facts 11 times-table and division facts 12 times-table and division facts Multiply by 1 and 0 Divide a number by 1 and itself Multiply three numbers | <p>Big Question: How did Britain change between the end of the Iron Age and the end of the Roman occupation?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Multiplication and Division B</u></p> <ul style="list-style-type: none"> Factor pairs Use factor pairs Multiply by 10 Multiply by 100 Divide by 10 Divide by 100 Related facts – multiplication and division Informal written methods for multiplication Multiply a 2-digit number by a 1-digit number Multiply a 3-digit number by a 1-digit number Divide a 2-digit number by a 1-digit number Divide a 3-digit number by a 1-digit number Correspondence problems Efficient multiplication <p><u>Length and Perimeter</u></p> <ul style="list-style-type: none"> Measure in kilometres and metres Equivalent lengths (kilometres and metres) Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes Find missing lengths in rectilinear shapes Calculate the perimeter of rectilinear shapes Perimeter of regular polygons Perimeter of polygons | <p>Big Question: What makes the earth angry?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Fractions</u></p> <ul style="list-style-type: none"> Understand the whole Count beyond 1 Partition a mixed number Number lines with mixed numbers Compare and order mixed numbers Understand improper fractions Convert mixed numbers to improper fractions Convert improper fractions to mixed numbers Equivalent fractions on a number line Equivalent fraction families Add two or more fractions Add fractions and mixed numbers Subtract two fractions Subtract from whole amounts Subtract from mixed numbers <p><u>Decimals A</u></p> <ul style="list-style-type: none"> Tenths as fractions Tenths and decimals Tenths on a place value chart Tenths on a number line Divide a 1-digit number by 10 Divide a 2-digit number by 10 Hundredths as fractions Hundredths as decimals Hundredths on a place value chart Divide a 1- or 2- digit number by 100 | <p>Big Question: Why was Ancient Egypt's civilisation ahead of its time?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Decimals B</u></p> <ul style="list-style-type: none"> Make a whole Write decimals Compare decimals Order decimals Round decimals Halves and quarters <p><u>Money</u></p> <ul style="list-style-type: none"> Pounds and pence Ordering money Estimating money Four operations <p><u>Time</u></p> <ul style="list-style-type: none"> Hours, minutes and seconds Years, months, weeks and days Analogue to digital – 12 hours Analogue to digital – 24 hour | <p>Big Question: What are biomes and how are they created?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Shape</u></p> <ul style="list-style-type: none"> Identify angles Compare and order angles Triangles Quadrilaterals Lines of symmetry Complete a symmetric figure <p><u>Statistics</u></p> <ul style="list-style-type: none"> Interpret charts Comparison, sum and difference Line graphs <p><u>Position and Direction</u></p> <ul style="list-style-type: none"> Describe position Draw on a grid Move on a grid Describe movement on a grid | <p>By the end of Year 4 children should be able to:</p> <ul style="list-style-type: none"> Count backwards through zero to include negative numbers. Compare and order numbers beyond 1,000. Compare and order numbers with up to 2 decimal places. Read Roman numerals to 100. Find 1,000 more/less than a given number. Count in multiples of 6, 7, 9, 25 and 1000. Recall and use multiplication and division facts all tables to 12x12. Recognise PV of any 4-digit number. Round any number to the nearest 10, 100 or 1000. Round decimals with 1dp to nearest whole number. Add and subtract: Numbers with up to 4-digits using written columnar method. Numbers with up to 1dp. Estimate and use inverse to check Multiply: 2-digit by 1-digit 3-digit by 1-digit Count up/down in hundredths. Recognise and write equivalent fractions +/- fractions with same denominator. Compare and classify geometrical shapes, including quadrilaterals and triangles, based on their properties and sizes. Know that angles are measured in degrees and can identify acute and obtuse angles. Compare and order angles up to two right angles by size. Measure and calculate the perimeter of a rectilinear figure in cm and m. Read, write and convert time between analogue and digital 12- and 24-hour clocks. Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. |



| AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 | AREs |
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| <p>Big Question: How did Britain change between the end of the Roman occupation of Britain and 1066?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Place Value</u></p> <ul style="list-style-type: none"> Roman numerals to 1000 Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000 Read and write numbers to 1,000,000 Powers of 10 10/100/1000/10,000/1000,000 more or less Partition numbers to 1,000,000 Number line to 1,000,000 Compare and order numbers to 100,000 Compare and order numbers to 1,000,000 Round to the nearest 10, 100 or 1000 Round within 100,000 Round within 1,000,000 <p><u>Addition and Subtraction</u></p> <ul style="list-style-type: none"> Mental strategies Add whole numbers with more than four-digits Subtract whole numbers with more than four digits Subtract whole numbers with more than four digits Round to check answers Inverse operations (addition and subtraction) Multi-step addition and subtraction problems Compare calculations Find missing numbers | <p>Big Question: Why should gunpowder, treason and plot never be forgotten?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Multiplication and Division A</u></p> <ul style="list-style-type: none"> Multiples Common multiples Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 100 and 1000 Divide by 10, 100 and 1000 Multiples of 10, 100 and 1000 Fractions A Find fractions equivalent to a unit fraction Find fractions equivalent to a non-unit fraction Recognise equivalent fractions Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions Compare fractions less than 1 Order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions with the same denominator Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number Add two mixed numbers Subtract fractions Subtract from a mixed number Subtract from a mixed number - breaking the whole Subtract to mixed numbers | <p>Big Question: What creates a rainforest and why are they located where they are?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Multiplication and Division A</u></p> <ul style="list-style-type: none"> Multiply up to a 4-digit number by a 1-digit number Multiply a 2-digit number by a 20digit number (area model) Multiply a 2-digit number by a 2-digit number Multiply a 3-digit number by a 2-digit number Multiply a 4-digit number by a 2-digit number Solve problems with multiplication Short division Divide a 4-digit number by a 1-digit number Divide with remainders Efficient division Solve problems with multiplication and division <p><u>Fraction B</u></p> <ul style="list-style-type: none"> Multiply a unit fraction by an integer Multiply a non-unit fraction by an integer Multiply a mixed number by an integer Calculate a fraction of a quantity Fraction of an amount Find the whole Use fractions as operators | <p>Big Question: What are the main features of South America?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Decimals and Percentages</u></p> <ul style="list-style-type: none"> Decimals up to 2 decimal places Equivalent fractions and decimals (tenths) Equivalent fractions and decimals (hundredths) Equivalent fractions and decimals Thousandths as fractions Thousandths as decimals Thousandths on a place value chart Order and compare decimals (same number of decimal places) Order and compare any decimals with up to 3 decimal places Round to the nearest whole number Round to 1 decimal place Understand percentages Percentages as fractions Percentages as decimals Equivalent fractions, decimals and percentages <p><u>Perimeter and Area</u></p> <ul style="list-style-type: none"> Perimeter of rectangles Perimeter of rectilinear shapes Perimeter of polygons Area of rectangles Area of compound shapes Estimate area <p><u>Statistics</u></p> <ul style="list-style-type: none"> Draw line graphs Read and interpret line graphs Read and interpret tables Two-way tables Read and interpret timetables | <p>Big Question: Who were the Maya and what have we learnt from them?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Shape</u></p> <ul style="list-style-type: none"> Measuring angles in degrees Measuring with a protractor Drawing lines and angles accurately Calculating angles on a straight line Calculating angles around a point Calculating lengths and angles in shapes Regular and irregular polygons Reasoning about 3D shapes <p><u>Position and Direction</u></p> <ul style="list-style-type: none"> Position in the first quadrant Translation Translation with coordinates Reflection Reflection with coordinates <p><u>Decimals</u></p> <ul style="list-style-type: none"> Adding decimals within 1 Subtracting decimals within 1 Complements to 1 Adding decimals - crossing the whole Adding decimals with the same number of decimal places Subtracting decimals with the same number of decimal places Adding and subtracting decimals with the same number of decimals Adding and subtracting decimals with a different number of decimal places Adding and subtracting wholes and decimals Decimal sequences Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 | <p>Big Question: What is Fairtrade and why should it matter to us?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Converting Units</u></p> <ul style="list-style-type: none"> Kilograms and kilometres Millimetres and millilitres Metric units Imperial units Converting units of time Timetables <p><u>Volume</u></p> <ul style="list-style-type: none"> What is volume? Compare volume Estimate volume Estimate capacity | <p>By the end of Year 5 children should be able to:</p> <ul style="list-style-type: none"> Count forwards & backward with positive & negative numbers through zero. Count forwards/backwards in steps of powers of 10 for any given number up to 1,000,000. Compare & order numbers up to 1,000,000. Compare & order numbers with 3 decimal places. Read Roman numerals to 1,000. Identify all multiples & factors, including finding all factor pairs. Recall prime numbers up to 19. Recognise & use square numbers & cube numbers. Recognise PV of any number up to 1,000,000. Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 or 100000. Round decimals with 2dp to nearest whole number & 1dp. Add & subtract: Numbers with more than 4-digits using formal written method. Numbers with up to 2dp. Use rounding to check answers. Multiply: 4-digits by 1-digit/ 2-digit Divide: Up to 4-digits by 1-digit Multiply & divide: Whole numbers & decimals by 10, 100 & 1000 Recognise & use thousandths. Recognise mixed numbers & improper fractions & convert from one to another. Multiply proper fractions & mixed numbers by whole numbers. Identify and write equivalent fractions. Know that angles are measured in degrees. Estimate and compare acute, obtuse and reflex angles. Draw given angles and measure them in degrees. Measure and calculate the perimeter of composite rectilinear shapes in cm and m. Solve time problems using timetables and converting between different units of time. Calculate and compare the areas of squares and rectangles including using standards units (cm² and m²). Convert between different units of metric measures and estimate volume and Capacity. Solve comparison, sum and difference problems using information presented in a line graph. |



| AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 | AREs |
|--|--|---|---|--|--|---|
| <p>Big Question: When and why was the British Empire created?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Addition and Subtraction</u></p> <ul style="list-style-type: none"> • Number to 1,000,000 • Numbers to 10,000,000 • Read and write number to 10,000.000 • Powers of 10 • Number line to 10,000,000 • Compare and order any integers • Round any integer • Negative numbers <p><u>Addition, subtraction, multiplication and division</u></p> <ul style="list-style-type: none"> • Add and subtract integers • Common factors • Common multiples • Rules of divisibility • Primes to 100 • Square and cube numbers • Multiply up to a 4-digit number by a 2-digit number • Solve problems with multiplication • Short division • Division using factors • Introduction to long division • Long division with remainders • Solve problems with division • Solve multi-step problems • Order of operations • Mental calculations and estimation • Reason from known facts | <p>Big Question: Why is climate change such an important topic?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Fractions A</u></p> <ul style="list-style-type: none"> • Equivalent fractions and simplifying • Equivalent fractions on a number line • Compare and order (denominator) • Compare and order (numerator) • Add and subtract simple fractions • Add and subtract any two fractions • Add mixed numbers • Subtract mixed numbers • Multi-step problems <p><u>Fraction B</u></p> <ul style="list-style-type: none"> • Multiply fractions by integers • Multiply fractions by fractions • Divide a fraction by an integer • Divide any fraction by an integer • Mixed questions with fractions • Fraction of an amount • Fraction of an amount - find the whole <p><u>Converting Unit</u></p> <ul style="list-style-type: none"> • Metric measures • Convert metric measures • Calculate with metric measures • Miles and kilometres • Imperial measures | <p>Big Question: What was the impact of the war on Britain?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Ratio</u></p> <ul style="list-style-type: none"> • Apply or multiply? • Use ratio language • Introduction the ratio symbol • Ratio and fractions • Scale drawing • Use scale factors • Similar shapes • Ratio problems • Proportion problems • Recipes <p><u>Algebra</u></p> <ul style="list-style-type: none"> • 1-step function machines • 2-step function machines • Form expressions • Substitution • Formulae • Form equations • Solve 1-step equations • Solve 2-step equations • Find pairs of values • Solve problems with two unknowns <p><u>Decimals</u></p> <ul style="list-style-type: none"> • Place value within 1 • Place value - integers and decimals • Round decimals • Add and subtract decimals • Multiply by 10, 00 and 1000 • Divide by 10, 100 and 1000 • Multiply decimals by integers • Divide decimals by integers • Multiply and divide decimals in context | <p>Big Question: What are the main features of North America?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Fractions, decimals and percentages</u></p> <ul style="list-style-type: none"> • Decimal and fraction equivalents • Fractions as division • Understand percentages • Fractions to percentages • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • Percentage of an amount - one step • Percentage of an amount - multi-step • Percentages - missing values <p><u>Area, perimeter and volume</u></p> <ul style="list-style-type: none"> • Shapes - same area • Area and perimeter • Area of a triangle - counting squares • Area of a right-angled triangle • Area of any triangle • Area of a parallelogram • Volume - counting cubes • Volume of a cuboid <p><u>Statistics</u></p> <ul style="list-style-type: none"> • Line Graphs • Dual bar charts • Read and interpret pie charts • Pie charts with percentages • Draw pie charts • The mean | <p>Big Question: What has been the impact of immigration on Britain over the past 100 years?</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Shape</u></p> <ul style="list-style-type: none"> • Measure with a protractor • Introduce angles • Calculate angles • Vertically opposite angles • Angles in a triangle • Angles in a triangle - special cases • Angles in a triangle - missing angles • Angles in special quadrilaterals • Angles in regular polygons • Draw shapes accurately • Draw nets of 3D shapes <p><u>Position and Direction</u></p> <ul style="list-style-type: none"> • The first quadrant • Four quadrants • Translations • Reflections | <p>Big Question: How do maps help us find our way around? (Year 6+ Programme)</p> <p>Overview of knowledge, understanding and skills (key concepts): <u>Algebra</u></p> <ul style="list-style-type: none"> • Find a rule - one step • Find a rule - two steps • Forming expressions • Substitution • Formulae • Forming equations • Solve simple one-step equations • Solve two-step equations • Find pairs of values | <p>By the end of Year 6 children should be able to:</p> <ul style="list-style-type: none"> • Use negative numbers in context & calculate intervals across zero. • Compare & order numbers up to 10,000,000. • Identify common factors, common multiples & prime numbers. • Round any whole number to a required degree of accuracy. • Identify value of each digit to 3dp. • Use knowledge of order of operations to carry out calculations involving 4 operations. • Use estimation to check answers. • Multiply: 4-digit by 2-digit • Divide: 4-digit by 2-digit • Add & subtract fractions with different denominators & mixed numbers. • Multiply simple pairs of proper fractions, writing the answer in the simplest form. • Divide proper fractions by whole numbers. • Calculate % of whole number. • Recall equivalences between FDP. • Calculate the area of a parallelogram and triangles and calculate, estimate and compare volume of cubes and cuboids. • Illustrate and name parts of circles, including radius, diameter and circumference and know that the radius is half the diameter. • Recognise, describe and build simple 3D shapes, including making nets. • Compare and classify geometric shapes and find unknown angles in any triangle, quadrilateral and regular polygons. • Read, write and convert between standard units, converting measurements of length, mass, volume and time using decimal notation to 3 decimal places. • Convert between miles and kilometers • Interpret and construct pie charts and line graphs and use these to solve problems. • Calculate and interpret the mean as an average. • Solve problems involving the relative sizes of two quantities where the missing values can be found by using multiplication and division facts. • Express missing number problems algebraically. • Find pairs of numbers that satisfy number sentences involving two unknowns. • Use simple formulae. • Generate and describe linear number sequences. • Express missing number problem algebraically. • Find pairs of numbers that satisfy an equation with two unknowns. • Enumerate possibilities of combinations of two variables. |