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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Year 5** | *12 lessons per fortnight* | |  |  | **Year 6** | *12 lessons per fortnight* | |
|  | **Wk** | **Topic** | **Learning Aims** | **Assessment** |  | **Wk** | **Topic** | **Learning Aims** | **Assessment** |
| **Autumn** | **1**  **W/C 2nd Sept** | **Number 1-Place value** | - rounding numbers  - read, write, order and compare numbers  - Roman Numerals  - negative numbers  Key vocabulary:  Rounding, negative, million | Weekly arithmetic tests throughout the year |  | **1**  **W/C 2nd Sept** | **Number 1- Place value** | **-** round whole numbers up to 10,000,000  - rounding  - read, write, order and compare numbers  - roman numerals  - negative numbers  Key vocabulary:  Rounding, million, negative | Weekly arithmetic tests throughout the year |
| **2**  **W/C 9th Sept** | **Baseline GL assessments** | **2**  **W/C 9th Sept** | Number 1 topic assessment- end of topic |
| **3**  **W/C 16th Sept** | Number 1 topic assessment- end of topic | **3**  **W/C 16th Sept** | **Calculations 1-**  **Addition**  **Subtraction**  **Multiplication**  **Division**  **Properties of numbers** | **-** written division  - interpret division remainders  - written multiplication  - solve multi-step addition and subtraction problems  - written addition and subtractions  - inverse operations  - order of operations  - prime numbers  - square and cube numbers  - factors  - multiples  Key vocabulary:  Remainders, prime, square, cube, factors, multiples | **Practice SATs** |
| **4**  **W/C 23rd Sept** | **Calculations 1- Addition and subtraction** | **-** add and subtract decimals  - solve addition and subtraction multi-step problems  - use rounding to estimate and approximate  - inverse operations  - add and subtract integers  - add and subtract numbers  - mental addition and subtraction  Key vocabulary:  Addition, subtraction, inverse, exchange |  | **4**  **W/C 23rd Sept** |  |
| **5**  **W/C 30th Sept** | Calculations 1 topic assessment- end of topic | **5**  **W/C 30th Sept** | Calculations 1 topic assessment A- end of topic |
| **6**  **W/C 7th Oct** | **Statistics 1** | **-** timetables  - two-way tables  - line graphs  - comparison, sum and difference problems  - tables  - bar charts and pictograms  Key vocabulary:  Axis, interpret, line graph | **Autumn assessments** | **6**  **W/C 7th Oct** |  |
| **7**  **W/C 14th Oct** | Statistics 1 topic assessment- end of topic | **7**  **W/C 14th Oct** | Calculations 1 topic assessment B- end of topic |
| **8**  **W/C 21st Oct** | **Number 2- Properties of number** | -cube numbers  - multiply and dividing by 10, 100 and 1000  - prime numbers  - square numbers  - factors  - multiples  Key vocabulary:  Cube, square, multiples, factors |  | **8**  **W/C 21st Oct** | **Number 2- Fractions** | - add and subtract fractions  - compare and order fractions  - convert between improper and mixed number fractions  - simplify fractions  - equivalent fractions  - multiply fractions  - divide fractions  - fractions of amounts  Key vocabulary:  Improper, numerator, denominator, simplify, equivalent |  |
| **9**  **W/C 4th Nov** |  | **9**  **W/C 4th Nov** | Number 2 topic assessment- A end of topic |
| **10**  **W/C 11th Nov** | Number 2 topic assessment- end of topic | **10**  **W/C 11th Nov** | **Practice SATs** |
| **11**  **W/C 18th Nov** | **Measurement 1- Perimeter and area** | **-** area of compound shapes  - area of irregular shapes  - perimeter of rectilinear shapes  - area of rectangles  - measure perimeter  - perimeter of rectangles  - perimeter of shapes drawn on a grid  Key vocabulary:  Area, perimeter, rectilinear, compound |  | **11**  **W/C 18th Nov** | Number 2 topic assessment B- end of topic |
| **12**  **W/C 25th Nov** | Measurement 1 topic assessment- end of topic | **12**  **W/C 25th Nov** | **Geometry 1- Position and direction** | **-** missing coordinates  - reflect shapes  - translate shapes  - read and plot coordinates in four quadrants  Key vocabulary:  Coordinates, translate, reflect, quadrant | **Geometry 1-**  topic assessment-end of topic |
| **13**  **W/C 2nd Dec** | **Consolidation lessons** | Teachers will cover areas for development identified in the autumn term topics. |  | **13**  **W/C 2nd Dec** | **Consolidation lessons** | Teachers will cover areas for development identified in the autumn term topics. |  |
| **14**  **W/C 9th Dec** |  | **14**  **W/C 9th Dec** |  |
| **15**  **W/C 16th Dec** |  | **15**  **W/C 16th Dec** |  |
| **Spring** | **1**  **W/C 6th Jan** | **Calculations 2- Multiplication and division** | - divide by 2-digit numbers  - divide with remainders  - divide by 2-digit numbers  - solve multiplication and division multi-step problems  Key vocabulary:  Multiplication, division, remainder, place value |  | **1**  **W/C 6th Jan** | **Number 3- Decimals** | - identify the value of digits  - multiply and divide decimals by integers  - multiply and divide decimals by 10, 100 and 1000  - convert between fractions and decimals  Key vocabulary:  Decimal, value, digit, integer, fraction, multiply, divide |  |
| **2**  **W/C 13th Jan** |  | **2**  **W/C 13th Jan** | Number 3 topic assessment- end of topic |
| **3**  **W/C 20th Jan** | Calculations 2 topic assessment- end of topic | **3**  **W/C 20th Jan** | **Number 4- Percentages** | -convert between fractions and percentages  - identify equivalent fractions, decimals and percentagesmi  - order fractions, decimals and percentages  - calculate percentages of amounts  - create missing values when finding percentages of amounts  - solve percentage word problems  Key vocabulary:  Fraction, decimal, percentage, amount, equivalent | **Practice SATs** |
| **4**  **W/C 27th Jan** | **Number 3- Fractions** | - compare and order fractions and mixed numbers  - convert between improper fractions and mixed numbers  - identify equivalent fractions  - add and subtract fractions and mixed numbers  - multiply fractions, mixed numbers and integers  - calculate fractions of amounts  Key vocabulary:  Fraction, numerator, denominator, mixed number, improper fraction, equivalent |  | **4**  **W/C 27th Jan** | Number 4 topic assessment- end of topic |
| **5**  **W/C 3rd Feb** |  | **5**  **W/C 3rd Feb** | **Algebra 1** | -calculate inputs, outputs and functions  - solve one and two-step equations  - find pairs of numbers to satisfy equations  - form expressions  - identify a rule  - substitute numbers into expressions  - write formulas and equations  Key vocabulary:  Input, output, function, substitute, equation, formula | Algebra 1 topic assessment- end of topic |
| **6**  **W/C 10th Feb** | **Spring assessments** | **6**  **W/C 10th Feb** | **Measurement 1- Converting units** | -convert between units of length, mass and capacity  - convert between units of time  - read and solve problems using timetables  Key vocabulary:  Measure, units, kilo, length, mass, capacity | Measurement 1 topic assessment- end of topic |
| **7**  **W/C 24th Feb** |  | **7**  **W/C 24th Feb** | **Measurement 2- Area, perimeter and volume** | - Identify shapes with the same area and different perimeters  - calculate the volume of cubes, cuboids and compound shapes  - calculate the area of quadrilaterals and triangles  Key vocabulary:  Area, perimeter, volume, compound shapes |  |
| **8**  **W/C 3rd March** | **Spring term assessments- Reasoning and arithmetic** | **8**  **W/C 3rd March** | Measurement 2 topic assessment- end of topic  **Practice SATs** |
| **9**  **W/C 10th March** | Number 3 topic assessment- end of topic | **9**  **W/C 10th March** | **Ratio and proportion** | -write a ratio using the symbol  - represent ratio as a fraction  - calculate ratios  - calculate scale factors  - use scale factors to enlarge shapes  - solve ratio and proportion problems  Key vocabulary:  Ratio, proportion, scale factors, fraction |  |
| **10**  **W/C 17th March** | **Number 4- Decimals and percentages** | - order and compare decimals  - calculate equivalent fractions, decimals and percentages  - round decimals  Key vocabulary:  Decimal, percentage, equivalent, rounding |  | **10**  **W/C 17th March** | Ratio and proportion topic assessment- end of topic |
| **Summer** | **1**  **W/C 24th March** | Number 4 topic assessment- end of topic | **1**  **W/C 24th March** | **Statistics 1** | - name parts of a circle  - read, interpret and draw line graphs  - read, interpret and draw pie charts, including with percentages  - calculate the mean  Key vocabulary:  Graph, chart, mean, radius, diameter, interpret | Statistics 1 topic assessment- end of topic |
| **2**  **W/C 31st March** | **Number 5- Decimals** | - add and subtract decimals  - compare and order decimals  - multiply decimals by 10, 100 and 1000  - divide decimals by 10, 100 and 1000  Key vocabulary:  Decimal, place value, compare, order, greater than, less than |  | **2**  **W/C 31st March** | **Geometry 2- Properties of shape** | -name, estimate, draw and measure angles  - calculate missing angles around a point and on a straight line  - calculate vertically opposite angles  - calculate missing angles in triangles, quadrilaterals and regular polygons  - draw nets of 3D shapes  - draw shapes accurately  Key vocabulary:  Angles, acute, obtuse, reflex, degrees, full turn, straight line | Geometry 2 topic assessment- end of topic |
| **3**  **W/C 7th April** |  | **3**  **W/C 7th April** | **SATs Revision & Consolidation** | Teachers will cover areas for development identified across all topics in preparation for SATs. |  |
| **4**  **W/C 28th April** | Number 5 topic assessment- end of topic | **4**  **W/C 28th April** |  |
| **5**  **W/C 5th May** | **Geometry 1-Properties of shape** | - name angles  - measure and draw angles  - compare and order angles  - calculate angles around a point  - draw lines accurately  - name and identify the properties of triangles  - name and identify the properties of quadrilaterals  - calculate missing lengths and angles  - name and identify regular and irregular polygons  Key vocabulary:  Angle, acute, obtuse, reflex, degrees, full turn, straight line |  | **5**  **W/C 5th May** |  |
| **6**  **W/C 12th May** |  | **6**  **W/C 12th May** | **SATs Week** |
| **7**  **W/C 19th May** | Geometry 1 topic assessment- end of topic | **7**  **W/C 19th May** | **Consolidation** | Teachers will revisit any areas of weakness and topics that were not covered in enough depth prior to SATs. Topics may include measurement, statistics, algebra, ratio and proportion. |  |
| **8**  **W/C 2nd June** | **Geometry 2-Position and direction** | - write coordinates  - plot points  - identify lines of symmetry  - translate points and shapes  - reflect points and shapes  Key vocabulary:  Reflect, translate, coordinates, points, symmetry |  | **8**  **W/C 2nd June** |  |
| **9**  **W/C 9th June** | Geometry 2 topic assessment- end of topic  **Summer assessments**  **GL assessment fortnight** | **9**  **W/C 9th June** | **GL assessment fortnight** |
| **10**  **W/C 16th June** | **Measurement 2- Converting units** | - convert between units of length, mass and capacity  - convert between units of time  - read and solve problems using timetables  Key vocabulary:  Measure, units, kilo, length, mass, capacity | **GL assessment fortnight** | **10**  **W/C 16th June** | **GL assessment fortnight** |
| **11**  **W/C 23rd June** | Measurement 2 topic assessment- end of topic | **11**  **W/C 23rd June** |  |
| **12**  **W/C 30th June** | **Measurement 3-Volume** | -describe and name units of volume and capacity  - estimate and compare volume and capacity  Key vocabulary:  Volume, capacity, estimate, compare, units | Measurement 3 topic assessment- end of topic | **12**  **W/C 30th June** |  |
| **13**  **W/C 7th July** | **Consolidation** | Teachers will cover areas for development identified in the summer term topics. |  |  | **13**  **W/C 7th July** |  |
| **14**  **W/C 14th July** |  |  | **14**  **W/C 14th July** |  |
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