|  |  |  |
| --- | --- | --- |
| **Year 5**  **Year Overview** | | |
| **Unit** | **Learning Hours** | **Summary of Key Content** |
| 1. Pattern Sniffing | 8 | Count forwards, backwards in steps of powers of 10; multiply and divide numbers mentally  Recognise and use square and cube numbers  Identify factors and multiples, know and use prime numbers |
| 2. Investigating Number Systems | 8 | Read, write, compare and order numbers up to 1 000 000; read Roman numerals to 1000; read, write and interpret negative numbers.  Round integers to powers of 10, round decimals to 2dp, order decimals to 3dp |
| 3. Solving Calculation Problems | 8-12 | Add and subtract numbers mentally; Formal addition and subtraction up to 4d; Formal multiplication up to 4d x 1d or 2d; Formal division up to 4d /1d. Use rounding to check answers |
| 4. Exploring Shape | 8 | Estimate and compare acute, obtuse and reflex angles  Use properties of rectangles to find missing lengths and angles; identify regular polygons |
| 5. Generalising Arithmetic | 8 | Revisit formal methods of calculation  Multiply and divide whole number and decimals by 10, 100, 1000  Solve addition and subtraction multi-step problems in context |
| 6. Reasoning with Measures | 8 | Perimeter of rectilinear shapes; area of rectangles; estimate area or irregular shapes; estimate volume. |
| 7. Discovering Equivalence | 12 | Mixed number and improper fractions; compare and order fractions with multiple denominators; identify and name equivalent fractions; count in hundredths; write decimals as fractions; recognise and use thousandths; understand per cent and % sign; write percentages as fractions over 100; solve problems involving equivalence of simple FDP. |
| 8. Investigating Statistics | 6 | Line graphs – comparison, sum and difference problems; complete, read and interpret tables |
| 9. Solving Number Problems | 8 | Recap multiplication and division by powers of 10, recap formal multiplication and division Solve problems involving any of the four operations, including problems of factors, multiples and squares, problems of scaling by fractions, problems of simple rates and problems involving decimals up to 3dp. |
| 10. Reasoning with Fractions | 8 | Add and subtract fractions with same denominators or those that are multiples of each other  Multiply proper fractions and mixed numbers by integers (supported diagrammatically) |
| 11. Visualising Shape | 6-8 | Draw given angles, measure them in degrees; identify 3D shapes from 2D representations |
| 12. Exploring Change | 4 | Solve problems converting between units of time; coordinates – first quadrant |
| 13. Proportional Reasoning | 8-10 | Recap mental calculations; revisit formal methods for multiplication and division; solve calculation problems for 4 operations. |
| 14. Describing Position | 8 | Describe position of shape following reflection or translation |
| 15. Measuring and Estimating | 8 | Solve problems involving four operations and measures; convert between metric units; understand approximate metric-imperial conversions |

It is down to the individual class teacher to adapt the time, order and duration of each of the units to best suit the children’s needs.