**Year 7 Topic Overview and assessments**

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| **Week** | **Topic** | **Assessment Learning Landmark** |
| 1 | Baseline assessments (x3) | LL1: Baseline assessments |
| 2 | Assessment response  Multiplication methods  Division methods |  |
| 3 | Negative numbers including four operations and ordering  Squares, roots and cubes  **Rules of indices** |  |
| 4 | Perimeter of basic and compound shapes  Area of basic and compound shapes  **Area and circumference of circles** | LL2: Homework sheet 2 |
| 5 | Functional area and perimeter  Surface area of cubes and cuboids  Maths challenge practise  **Area and perimeter of sectors** |  |
| 6 | Volume of prisms  Rounding to decimal places, significant figures & Estimation by rounding  Inverse operations |  |
| 7 | Multiplying and dividing with decimals  Maths magic tricks |  |
| Half Term | | |
| 8 | Calculator skills  Sequences - finding and using the nth term rule |  |
| 9 | Graphs & representing data  Drawing pie charts | LL3: Homework sheet 7 |
| 10 | Mini-me models |  |
| 11 | Averages and range (mean, median & mode) from a list  Averages and range from ungrouped frequency tables  **Estimated mean** |  |
| 12 | Revision & assessment  Problem solving | LL4: Test 1 (non-calculator) |
| 13 | Assessment response  Divisibility tests  **Comparing averages**  **Maths challenge** |  |
| 14 | Million pound project presentations  Christmas activities |  |
| Christmas | | |
| 15 | Product of prime factors  Factors and multiples including HCF and LCM **& Venn diagrams** |  |
| 16 | Drawing & measuring angles  Basic angle rules  Angles in parallel lines |  |
| 17 | Angles in parallel lines  Problem solving & Maths challenge practise  **Angle proofs** | LL5: Homework sheet 10 |
| 18 | Metric & Imperial conversions |  |
| 19 | Simplifying expressions by collecting like terms  Expanding single and double brackets |  |
| 20 | Substitution in to expressions and formulae  Problem solving |  |
| Half Term | | |
| 21 | **Maths challenge practise**  Compass constructions including perpendicular and angle bisectors |  |
| 22 | Simplifying and equivalent fractions  Improper fractions and mixed numbers & comparing fractions  Adding and subtracting fractions | LL6: Mixed homework sheet 15 |
| 23 | Multiplying and dividing fractions  Proportion  Writing, simplifying and comparing parts of ratio |  |
| 24 | Sharing in a ratio  Revision |  |
| 25 | Assessments  Problem solving | LL7 &8: Spring exams (non-calculator & calculator) |
| 26 | Assessment response  Easter activities |  |
| Easter | | |
| 27 | Solving basic equations  Problem solving  **Solving equations with unknowns on both sides, including brackets** |  |
| 28 | Form and solve equations  Reflections & Translations |  |
| 29 | Enlargements  Rotations  **Combined transformations** | LL9: Homework sheet 19 |
| 30 | Read and plot coordinates  Plotting straight line graphs  Maths challenge practise |  |
| 31 | Revision and assessment  Assessment response | LL10: Summer exam (non-calculator) |
| Half Term | | |
| 32 | Real life graphs  Fractions of amounts  FDP conversions, & ordering FDP |  |
| 33 | Percentages of amounts (non-calc and calc methods)  Revision |  |
| 34 | Assessment & response  Introduction to probability | LL11: Summer exam (calculator) |
| 35 | Relative frequency & expected outcomes  Sample space |  |
| 36 | Properties of 2D shapes  Problem solving | LL12: Homework sheet 21 (may be completed earlier) |
| 37 | Student designed board games |  |