**Year 7 Topic Overview and assessments**

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| **Week** | **Topic** | **Assessment Learning Landmark** |
| 1 | Baseline assessments (x3) | LL1: Baseline assessments  |
| 2 | Assessment responseMultiplication methodsDivision methods |  |
| 3 | Negative numbers including four operations and orderingSquares, roots and cubes**Rules of indices** |  |
| 4 | Perimeter of basic and compound shapesArea of basic and compound shapes **Area and circumference of circles** | LL2: Homework sheet 2 |
| 5 | Functional area and perimeterSurface area of cubes and cuboidsMaths challenge practise **Area and perimeter of sectors** |  |
| 6 | Volume of prismsRounding to decimal places, significant figures & Estimation by roundingInverse operations |  |
| 7 | Multiplying and dividing with decimals Maths magic tricks |  |
| Half Term |
| 8 | Calculator skillsSequences - finding and using the nth term rule  |  |
| 9 | Graphs & representing dataDrawing pie charts | LL3: Homework sheet 7 |
| 10 | Mini-me models |  |
| 11 | Averages and range (mean, median & mode) from a listAverages and range from ungrouped frequency tables**Estimated mean** |  |
| 12 | Revision & assessmentProblem solving | LL4: Test 1 (non-calculator) |
| 13 | Assessment responseDivisibility tests**Comparing averages** **Maths challenge** |  |
| 14 | Million pound project presentationsChristmas activities  |  |
| Christmas |
| 15 | Product of prime factors Factors and multiples including HCF and LCM **& Venn diagrams** |  |
| 16 | Drawing & measuring anglesBasic angle rulesAngles 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 termsExpanding single and double brackets |  |
| 20 | Substitution in to expressions and formulaeProblem solving |  |
| Half Term |
| 21 | **Maths challenge practise**Compass constructions including perpendicular and angle bisectors |  |
| 22 | Simplifying and equivalent fractionsImproper fractions and mixed numbers & comparing fractionsAdding and subtracting fractions | LL6: Mixed homework sheet 15  |
| 23 | Multiplying and dividing fractionsProportionWriting, simplifying and comparing parts of ratio |  |
| 24 | Sharing in a ratioRevision |  |
| 25 | AssessmentsProblem solving | LL7 &8: Spring exams (non-calculator & calculator) |
| 26 | Assessment responseEaster activities |  |
| Easter |
| 27 | Solving basic equationsProblem solving**Solving equations with unknowns on both sides, including brackets** |  |
| 28 | Form and solve equationsReflections & Translations |  |
| 29 | EnlargementsRotations**Combined transformations** | LL9: Homework sheet 19 |
| 30 | Read and plot coordinatesPlotting straight line graphsMaths challenge practise |  |
| 31 | Revision and assessmentAssessment response | LL10: Summer exam (non-calculator) |
| Half Term |
| 32 | Real life graphsFractions of amountsFDP conversions, & ordering FDP |  |
| 33 | Percentages of amounts (non-calc and calc methods)Revision |  |
| 34 | Assessment & responseIntroduction to probability | LL11: Summer exam (calculator) |
| 35 | Relative frequency & expected outcomesSample space |  |
| 36 | Properties of 2D shapesProblem solving | LL12: Homework sheet 21 (may be completed earlier)  |
| 37 | Student designed board games |  |