Year 8 Topic Overview and assessments

Week	Topic	Assessment Learning Landmark
1	Factors, multiples, primes HCF LCM inc. product of primes and Venn Diagrams	
2	Nth term formula linear. Generate sequences and find a formula. Types of sequence AP, GP , Fibonacci **& Quadratic nth term**	
3	Compass constructions triangles and bisectors Properties of 2D shapes	LL1 - Mixed Homework sheet 2
4	Plans and elevations Problem solving	
5	Revision Introduction to probability	LL2: Test 1 (non-calculator)
6	Sample space & Relative frequency	
7	Expected outcomes **Probability trees,** Frequency trees and two way tables	
Half Term		
8	Fractions of amounts & Four operations with fractions	
9	Percentages of amounts, Increasing and decreasing by percentages Writing and simplifying ratios	
10	Revision Sharing in a ratio	LL3: Test 2 (non-calculator)
11	Scale drawing, special offers and unitary method for best buys. **Ratio & direct proportion** Simplifying expressions	
12	Substitution Expanding single brackets and double brackets	LL4 - Mixed Homework sheet 7
13	Factorising linear expressions **& Factorising quadratics** Problem solving & Numeracy	
14	Bedroom project presentations & Christmas activities	
Christmas		
15	Metric & Imperial conversions **Introduction to compound measures**	
16	Area of basic 2D shapes and compound area Volume of prisms	
17	**Area and circumference of circles** Perimeter of shapes	LL5 - Mixed Homework sheet 10
18	Using calculators efficiently Problem solving	
19	Revision & assessment	LL6 – Spring exam 1 (non-calculator)
20	Rounding to decimal places and significant figures, estimation by rounding (1sf) **Bounds, error intervals and calculations** BIDMAS revision	
Half Term		
21	Forming and solving equations	
22	**Linear simultaneous equations** Plotting co-ordinates and co-ordinate problem solving Plotting straight line graphs	
23	Reflecting & rotating shapes Translating shapes	
24	Revision & assessment	LL7 – Spring exam 2 (calculator)
25	Enlargements & Mixed transformations	
26	**Domino sky scraper problem solving task** Famous mathematician poster presentations Easter Maths activities	LL8 - Mixed Homework sheet 15
Easter		
27	Finding basic averages (mean, median, mode, range) Drawing and interpreting pie charts Bar graphs	
28	Scatter graphs and correlation Stem and leaf diagrams and Two-way tables **Averages from frequency tables**	LL9 - Mixed Homework sheet 17

29	Laws of indices Problem solving	
30	Revision & assessment	LL10 – Summer exam 1 (non-calculator)
31	Negative numbers FDP conversions and ordering Problem solving	
Half Term		
32	Multiplying and dividing with decimals Basic angle rules, Drawing, measuring and estimating angles, & Angles in parallel lines	
33	**Bearings** Pythagoras	LL11 - Mixed Homework sheet 21
34	Types of data & Sampling Problem solving	
35	Revision & assessment	LL12 – Summer exam 2 (calculator)
36	Collecting, processing and displaying data project	
37	Theme park presentations	