Year 8 - Maths Learning Journey

	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Topic Title/ Theme	Proportional reasoning	Representations	Algebraic techniques	Developing number	Developing geometry	Reasoning with data
Overview	Simplifying fractions and ratio, sharing into a ratio, ratio problem solving, scale factor, circumference, direct and indirect proportion, multiplying and dividing fractions, currency conversions	Coordinates in 4 quadrants, straight line graphs, y=mx+c, quadratic graphs, scatter graphs, two way tables, listing outcomes, sample space diagrams, venn diagrams	Expanding and simplifying, factorising quadratics, equations and inequalities, sequences, expressions with powers	FDP equivalence, percentage change, add and subtract fractions, fractions and percentages problem solving, standard form, surds, rounding and bounds	Problem solving with angle rules, parallel lines, algebra, area of rectangles, parallelograms, trapezium, circle	Data handling and DIRT, Averages and 2 way tables, problem solving, enrichment week, bar charts, line graphs, reflection and lines of symmetry
Homework activities	Weekly Sparxmaths (or other worksheets, skills, revision and DIRT)					
Assessment	Best work. Autumn assessment 8th week	Best work.	Best work. Spring assessment 6th week	Best work.	Best work. Summer assessment 6th week	Best work.
Suggested extended reading activities/ resources	Sparxmaths.com to access vide tutorials and quizzes on every topic. Used for homework tasks https://whiterosemaths.com/homelearning?year=year-7 for information on the topics studied and lesson videos for your child to consolidate anything they choose.					
Suggested enrichment activities	Junior Maths Challenge past papers at https://www.ukmt.org.uk/competitions/solo/junior-mathematical-challenge/archive https://nrich.maths.org/secondary for challenge problems, activities and games					
Revision Resources	Sparxmaths and whiterosemaths as above					