Year 8

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Number	Algebraic expressions	2-D geometry	Proportional reasoning	3-D geometry	Statistics

All should be confident and competent with Year 7 material. Review of these prerequisites may be useful for each unit:

Factors, multiples and primes	Problem solving with fractions	Angle types	Rounding	Rectilinear areas	Statistical diagrams
Multiplication and division	Order of operations	Angle facts	Bar modelling with factions	Fraction +/−	Ratio and rate
Fraction equivalence and calculations	Form algebraic expressions	Rectangle and triangle areas	Fraction ×/÷	Problem solving with fractions	The mean
	Substitution	×/÷ by powers of 10	Bar modelling with equations	Percentage increase and decrease	Calculator skills and rounding
		Problem solving with negative nun	FDP equivalence	Substitution with negatives	

All will have access to this specific Key Stage 3 content:

Primes and indices	Negative numbers and inequality statements	Draw accurate triangles and quadr	Convert between percentages, vul	Rounding, significant figures and e	Collect and organise data
Prime factorisation to find LCM, HCF, squares,	Formulate and evaluate expressions	Find unknown angles (including pa	Percentage increase and decrease	Circumference and area of a circle	Interpret and compare statistical representations
Venn diagrams	Linear equations	Conversion between length units a	Ratio (equivalent, of a quantity) an	Visualise and identify 3-D shapes a	Mean, median and mode averages
Enumerating sets	Expressions and equations from realworld situations	Areas and perimeters of composit	Speed, distance, time	Volume of cuboid, prism, cylinder,	The range and outliers
Add and subtract fractions	Linear sequences: nth term	Areas of parallelograms and trapeziums			

As well as looking at the termly projects, highest attaining students may be stretched through depth by consideration of the following:

Egyptian fractions	Explore non-linear sequences	Similarity and ratio	Density	Platonic solids	Misleading graphs
Continued fractions	T-totals	Complex constructions	Area scale factors	Percentage errors	Equal width histograms
HCF and LCM generalisation		Simple angle proofs	Loan repayment	Plans and elevations	Sampling methods