Year 9 Pathway A – Key vocabulary list

Appendix 1: Term 1

Unit 1: Proportional reasoning

Bar model	Equivalent ratio	Numerator	Ratio
Denominator	Fraction	Part	Simplify
Direct proportion	Multiply	Percentage	
Divide	Number of parts	Proportion	

Unit 2: Angles

Angle	Isosceles	Quadrilateral	Straight line
Arrowhead	Kite	Rectangle	Sum
Delta	Parallel	Regular	Trapezium
Diagonal	Parallelogram	Rhombus	Triangle
Equilateral	Point	Right-angle 90°	Vertically opposite

Angle phrases to learn

- Angles around a point add up to 360°
- Angles on a straight line add up to 180°
- Vertically opposite angles are equal
- Angles in a triangle add up to 180°
- Base angles in an isosceles triangle area equal

Year 9 Pathway A – Key vocabulary list

Appendix 1: Term 2

Unit 3: Linear equations

Balance	Equals	Inverse operation	Solve
Brackets	Equation	Linear	Substitute
Coefficient	Expand	Simplify	Unknown
Collect like terms	Form	Solution	Variable

Unit 4: Calculations

Add/Addition	Half way	Midpoint	Subtract/Subtraction
BIDMAS	Hundred (H)	Multiply	Ten (T)
Brackets	Hundredth(h)	Order of operations	Tenth (t)
Decimal place	Index	Place value	Thousand (TH)
Divide	Indices	Round	Unit (U)

Unit 5: Fractions

Add	Equivalent	Mixed number	Simplest form
Common denominator	Fraction	Numerator	Simplify
Convert	Improper fraction	Part	Subtract
Denominator	Lowest common multiple LCM	Remainder	Whole

Year 9 Pathway A – Key vocabulary list

Appendix 1: Term 3

Unit 6: Graphs

Coordinate pair	Line $x = a$	Plot	Vertical
Coordinates	Line $y = b$	Point	x-axis
Equation	Line $y = x$	Positive	$y = mx + c$
Function	Line $y = -x$	Rule	y-axis
Gradient	Linear	Steepness	y-intercept
Horizontal	Negative	Straight line graph	
Line	Origin	Substitute	

Unit 7: Measures

Area	Height	Perimeter	Triangle
Base	Length	Perpendicular height	Volume
Compound shape	Mass	Rectangle	Width
Compound units	Parallel	Square	
Density	Parallelogram	Trapezium	

Year 9 Pathway A – Key vocabulary list

Appendix 1: Term 4

Unit 8: Sequences

Ascending	Formula	n^{th} term	Rule
Descending	Generate	Pattern	Sequence
Diagram	Linear	Position-to-term	Term
Difference	Next term	Previous term	Term-to-term

Unit 9: Probability

Biased	Experiment	Mutually exclusive	Relative frequency
Certain	Experimental probability	Outcome	Sample space
Chance	Fair	Probability	Sum to 1
Decimal	Fraction	Probability of A P(A)	Theoretical probability
Equally likely	Impossible	Probability of "not A" P(A')	Trial
Evens	Likelihood	Probability scale	

Unit 10: Expressions and formulae

Bracket	Equal =	Expression	Power
Coefficient	Equation	Form	Substitute
Collect terms	Evaluate	Formula	Substitution
Construct	Expand	Like terms	

Year 9 Pathway A – Key vocabulary list

Appendix 1: Term 5

Unit 11: Scale drawings

3 figures	Bearing	Direction	Ratio
A from B	Clockwise	Distance	Scale
Angle	Construct	North	Scale drawing
B from A	Construction	Point	

Unit 12: Representing and interpreting data

Average	Leaf	Minimum	Reading line
Correlation	Line of best fit	Mode	Relationship
Estimate	Lowest value	Negative	Scatter graph
Frequency	Maximum	Plot	Spread
Highest value	Mean	Positive	Stem
Key	Median	Range	Stem-and-leaf

Year 9 Pathway A – Key vocabulary list

Appendix 1: Term 6

Unit 13: Transformations

Angle	Direction	Line $y = x$	Scale factor
Anticlockwise	Enlarge	Line $y = -x$	Transformation
Centre of enlargement	Enlargement	Object	Translate
Centre of rotation	Image	Reflect	Translation
Clockwise	Line of reflection	Reflection	x-axis
Column vector	Line $x = a$	Rotate	y-axis
Combined transformations	Line $y = b$	Rotation	

Unit 14: Constructions

Angle	Construct	Isosceles	Ruler
Base	Construction	Length	Side
Compasses	Intersection	Protractor	Triangle