







Year one				Year two		
	Autumn Term	Spring Term	Summer term	Autumn Term	Spring Term	Summer term
Topic Titles	Lines, Angles and shapes, Plans and Elevations, Simple scales	Symmetry and Transformations	Probability and Statistics	Number Using Maths in Industry	Integers, Powers and roots, sequences, functions and graphs.	Fractions, Decimals and Percentages Formulae and Functions and measures
the pupils to make progress in)	Types of shapes 2D and 3D types of nagles and perpendicular lines. Angles around a point, on a straight line and in triangles. Alternate corresponding and supplemementary angles. Exterior and interirour angles of polygons. Using a protractor to measure and draw angles accurately. Identify plans, elevations and nets and convert and use simple scales on maps and drawings.	Introduction to Symmetry and reflection. Rotation and rotational symmetry. Translations using vectors. Describing transformations	frequencies P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities	Column addition and subtraction standard methods to multiply up to 3 digits and 2 digits divisibility and short division Directed numbers Place value calculate with money Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Factors, Multiples and Primes	S2 Construct and interpret frequency tables and two-way tables; Construct and interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers H Calculate inter-quartile range and use in comparison of data sets H Use frequency tables to represent grouped data H Construct Histograms with equal or unequal class widths fractions; Compare decimals and fractions using the symbols > and < N12 Convert between fractions, decimals and percentages

EXTENSION	To demonstrate mastery in:	Assuming the objectives for stage 4	P1 Use experimenatl data to estimate	•	to demonstrate a mastery in Factors,	Assuming the objectives for stage 4 have
Key Stage 4	G12 Identify the number of faces,	have been met extension objectives	probabilities and expected	Column addition and subtraction	Multiples and Primes	been met extension objectives are:-
(GCSE 7-9)	edges and vertices of 3D shapes;	are:-	frequencies	standard methods to multiply up to 3	HCF and LCM	H Calculate inter-quartile range and use
	Construct and interpret plans and	H Perform exact calculations involving	P2 Calculate theoretical probabilities	digits and 2 digits	Cubes and Roots	in comparison of data sets
	elevations of 3D shapes	surds	and expected frequencies using the	divisibility and short division	Sequences	H Use frequency tables to represent
	14 Accurately draw and measure lines	H Recognise, sketch and interpret	idea of equally likely outcomesP3	Directed numbers	co-ordiantes	grouped data
	and angles	graphs of exponential functions	Compare theoretical probabilities	Place value	Linear graphs	H Construct Histograms with equal or
	G15 Use standard units for lengths	H Recognise, sketch and interpret	with experimental probabilities	calculate with money		unequal class widths
	and areas; Use bearings; Interpret	graphs of trigonometric functions	P4 Recognise mutually exclusive			H Convert between fractions, recurring
	maps and scale drawings	H Recognise, sketch translations and	events and exhaustive events and	Understand how maths is used in a		decimals, and percentages
	G16 Know and apply formulae for	reflections of graphs	know that the probability of mutually	wide range of industry including		H Order fractions, decimals and
	areas of triangles, parallelograms and	H Calculate with vectors and use	exclusive events sum to 1	construction and Hair and Beauty.		percentages
	trapeziums	them in geometric proofs	P6 Use Venn diagrams to record	 		H Rearrange formulae to change the
	_ ·	H Know or find the exact values of sin	-			subject
	-	l .	of events; Construct possibility spaces			H Write an equation to represent a
		l .	and use these to calculate			function and find inputs and outputs
	_		probabilities; Use tree diagrams to			H Find the inverse of a function and
			show the frequencies or probabilities			construct and use composite functions
			of two events Use tree diagrams to			H Construct proofs of simple statements
			calculate the probability of			using algebra
			independant and dependant events			H Expand and factorise quadratics
			i i			· · ·
PLATINUM		l	P1 Use experimenatl data to estimate		to have a secure knowledges of	S2 Construct and interpret frequency
Key Stage 4	to independently:	to independently:	probabilities and expected	Column addition and subtraction	Factors, Multiples and Primes	tables and two-way tables; Construct and
	Taranta de la co	I	i	l	l	
GCSE 5-6)		Recognise and investigate symmetry.	I -	standard methods to multiply up to 3		interpret pictograms, bar line charts and
GCSE 5-6)	edges and vertices of 3D shapes;	Recognise and investigate symmetry. Understand reflection.	P2 Calculate theoretical probabilities	digits and 2 digits	Cubes and Roots	interpret pictograms, bar line charts and bar charts; Interpret and construct pie
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and	Recognise and investigate symmetry. Understand reflection. Rotational symmetry	P2 Calculate theoretical probabilities and expected frequencies using the	digits and 2 digits divisibility and short division	Cubes and Roots Sequences	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3	digits and 2 digits divisibility and short division Directed numbers	Cubes and Roots Sequences co-ordiantes	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median,
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities	digits and 2 digits divisibility and short division Directed numbers Place value	Cubes and Roots Sequences	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and <
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of amounts; Add, subtract, multiplay and
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums G7 & G24 Identify, describe and	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities of events; Construct possibility spaces	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums G7 & G24 Identify, describe and construct reflections, rotations,	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities of events; Construct possibility spaces and use these to calculate	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of amounts; Add, subtract, multiplay and divide simple fractions and mixed numbers
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums G7 & G24 Identify, describe and	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities of events; Construct possibility spaces and use these to calculate probabilities; Use tree diagrams to	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of amounts; Add, subtract, multiplay and divide simple fractions and mixed numbers N12 Convert between fractions, decimals
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums G7 & G24 Identify, describe and construct reflections, rotations,	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities of events; Construct possibility spaces and use these to calculate probabilities; Use tree diagrams to show the frequencies or probabilities	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of amounts; Add, subtract, multiplay and divide simple fractions and mixed numbers N12 Convert between fractions, decimals and percentages
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums G7 & G24 Identify, describe and construct reflections, rotations,	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities of events; Construct possibility spaces and use these to calculate probabilities; Use tree diagrams to show the frequencies or probabilities of two events	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of amounts; Add, subtract, multiplay and divide simple fractions and mixed numbers N12 Convert between fractions, decimals
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums G7 & G24 Identify, describe and construct reflections, rotations,	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities of events; Construct possibility spaces and use these to calculate probabilities; Use tree diagrams to show the frequencies or probabilities	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of amounts; Add, subtract, multiplay and divide simple fractions and mixed numbers N12 Convert between fractions, decimals and percentages A2 Substitute numerical values into formulae and expressions
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums G7 & G24 Identify, describe and construct reflections, rotations,	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities of events; Construct possibility spaces and use these to calculate probabilities; Use tree diagrams to show the frequencies or probabilities of two events	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of amounts; Add, subtract, multiplay and divide simple fractions and mixed numbers N12 Convert between fractions, decimals and percentages A2 Substitute numerical values into
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums G7 & G24 Identify, describe and construct reflections, rotations,	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities of events; Construct possibility spaces and use these to calculate probabilities; Use tree diagrams to show the frequencies or probabilities of two events Use tree diagrams to calculate the probability of	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of amounts; Add, subtract, multiplay and divide simple fractions and mixed numbers N12 Convert between fractions, decimals and percentages A2 Substitute numerical values into formulae and expressions
GCSE 5-6)	edges and vertices of 3D shapes; Construct and interpret plans and elevations of 3D shapes 14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings G16 Know and apply formulae for areas of triangles, parallelograms and trapeziums G7 & G24 Identify, describe and construct reflections, rotations,	Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomesP3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and exhaustive events and know that the probability of mutually exclusive events sum to 1 P6 Use Venn diagrams to record outcomes and calculate probabilities of events; Construct possibility spaces and use these to calculate probabilities; Use tree diagrams to show the frequencies or probabilities of two events Use tree diagrams to calculate the probability of	digits and 2 digits divisibility and short division Directed numbers Place value calculate with money through independent problem solving methods. Understand how maths is used in a wide range of industry including construction and Hair and Beauty.	Cubes and Roots Sequences co-ordiantes Linear graphs	interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range and identify outliers N10 Convert between terminating decimals and their corresponding fractions; Compare decimals and fractions using the symbols > and < N8 Find fractions and percentages of amounts; Add, subtract, multiplay and divide simple fractions and mixed numbers N12 Convert between fractions, decimals and percentages A2 Substitute numerical values into formulae and expressions A3 Identify inequalities, equations,

GOLD Key Stage 4 (GCSE 3-4)	shapes G14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Use bearings; Interpret maps and scale drawings	to: Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation. Often working independently to achieve this.	P2 Calculate theoretical probabilities and expected frequencies using the idea of equally likely outcomes P3 Compare theoretical probabilities with experimental probabilities P4 Recognise mutually exclusive events and know that the probability of mutually exclusive events sum to 1 P6 Construct possibility spaces and	of Column addition and subtraction standard methods to multiply up to 3 digits and 2 digits divisibility and short division Directed numbers Place value calculate with money	to have a secure knowledges of Factors, Multiples and Primes HCF and LCM Cubes and Roots Sequences co-ordiantes Linear graphs	S2 Construct and interpret frequency tables and two-way tables; Construct and interpret pictograms, bar line charts and bar charts; Interpret and construct pie charts and know their appropriate use S4 Compare distributions using median, mean mode and range A2 Substitute numerical values into formulae and expressions A3 Identify inequalities, equations, formulae and identities A4 Expand double brackets;
Silver Key Stage 3 (GCSE 1-2)	of how to: recognise and descibe 2D shapes G14 Accurately draw and measure lines and angles G15 Use standard units for lengths and areas; Interpret maps and scale drawings	of how to: Recognise and investigate symmetry. Understand reflection. Rotational symmetry Translations and use vectors. Geometrical transformation single transformation. Sometimes with support.	P2 Calculate theoretical probabilities using the idea of equally likely outcomes P4 Recognise mutually exclusive events and know that the probability of mutually exclusive events sum to 1 P6 Construct possibility lists and use these to calculate probabilities;	Column addition and subtraction standard methods to multiply up to 3 digits and 2 digits divisibility and short division Directed numbers Place value	To begin to develop a good understanding of Factors, Multiples and Primes HCF and LCM Cubes and Roots Sequences co-ordiantes Linear graphs	S2 Construct and interpret frequency tables and two-way tables; Construct and interpret pictograms, bar line charts and bar charts; S4 Compare distributions using median, mode and range N10 Convert a fraction to a decimal with a calculator N8 Find fractions and percentages of amounts; N12 Convert between decimals and percentages A2 Substitute numerical values into formulae and expressions A3 Identify inequalities, equations, formulae and identities
Bronze Key Stage 3 (Entry Level 3)	of how to: Recognise 2D shapes G14 Accurately draw and measure lines and angles G7 Recognise line and rotational symmetry,		P6 List possibilities and use these to calculate probabilities;	Column addition and subtraction standard methods to multiply up to 3 digits and 2 digits divisibility and short division Directed numbers	of Factors, Multiples and Primes	S2 Construct and interpret frequency tables and two-way tables; Construct and interpret pictograms, bar line charts and bar charts; N10 Convert a fraction to a decimal with a calculator N8 Find fractions of amounts; A2 Substitute numerical values into formulae