Interaction & Communication Academy Trust
Providing Opportunities, Inspiring Success

maths Term/ Week	Topic/Lesson content	Year 7	Year 8	Year 9	Year 10	Year 11
Aut 15 weeks		**Number/Counting/** **Sequences (2 weeks)** Count backwards through 0 to include negative numbers. Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less of a number. **Place Value (2 weeks)** Identify, represent and estimate numbers, including using a number line and manipulatives. Compare and order numbers beyond 1000. Recognise the place value in ThHTU. Round numbers to the nearest 10, 100, 1000. **Addition and Subtraction(3 weeks)** Add and subtract numbers with up to 4 digits using formal written methods. Two-step problems involving addition and subtraction. Estimate and use inverse operations to check. **Multiplication and Division(3 weeks)** Recall multiplication & division facts to 12x12. Recognise and use factor pairs & commutativity in mental maths. Multiplying and dividing 1- and 2-digit numbers by 10 and 100 (Fractions). Multiply 2-digit and 3-digit numbers by 1-digit numbers using formal written methods. **Geometry – Properties of Shapes (3 weeks)**	**Number/Counting/** **Sequences (2 weeks)** Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. Count forwards and backwards with positive and negative numbers, including through zero. **Place Value (2 weeks)** Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit. Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000. Round decimals with 2 decimal places to the nearest whole number/one decimal place (Fractions). **Addition and Subtraction (3 weeks)** Add and subtract whole numbers with more than 4-digits using formal written methods. Add and subtract increasingly large numbers, mentally. Multi-step problems involving addition and subtraction. Rounding to check answers to calculations. **Geometry – Properties of Shapes (3 weeks)** Know the difference between regular and irregular polygons. Identify 3D shapes from 2D representations. Use the properties of rectangles to work out missing lengths and angles. Estimate and measure angles in degrees. Work out angles on a point on a straight line (total 180°) and within a whole turn (360°).	AQA properties of numbers Consolidation of skills.	AQA Ratio AQA Measures Consolidation of skills.	AQA Statistics AQA Geometry

Compare and classify (sort) geometric shapes based on their size and properties.

Identify lines of symmetry in different orientations.

Complete a symmetrical figure or pattern.

Acute and obtuse angles.

Ordering angles by size.

Fractions(2 weeks)

Diagrams of common equivalent fractions.

Decimal equivalents of tenths, hundredths, ¼, ½, ¾.

Counting up and down in hundredths.

Mixed numbers.

Adding fractions with the same denominator.

Multiplication and Division (3 weeks)

Multiples and factors.

Use long multiplication to multiply up to 4-digit numbers by 1- or 2-digit numbers.

Use short division to divide up to 4-digit numbers by a 1-digit number.

Problems involving remainders.

Square numbers and cube numbers.

Prime numbers.

Fractions (2 weeks)

Identify, name and write equivalent fractions.

Read and write decimal numbers as fractions.

Compare and order fractions, including fractions >1.

Use common factors to simplify fractions.

Add and subtract fractions with the same denominator.

Multiply fractions.

Percentages.

Spr 14 weeks		Number/Counting/	Number/Counting/	AQA four operations	AQA	AQA
		Sequences (2 weeks)	**Sequences (2 weeks)**	Consolidation of skills.	The Four Operations	Money
		Count backwards through 0 to include negative numbers.	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.			
		Count in multiples of 6, 7, 9, 25 and 1000.			AQA	Pathway 1
		Find 1000 more or less of a number.	Count forwards and backwards with positive and negative numbers, including through zero.		The Calendar and Time	Exam preparation for Level 1/2 Functional Maths Paper
		Comparing and ordering numbers with up to 2 decimal places (fractions).			Consolidation of skills.	
			MeasureMass/weight, Capacity/volume (3 weeks)			Pathway 2
			Convert between g/kg, ml/l.			Functional Maths focus – money and time real life skills.
		Measure Mass/weight, Capacity/volume (3 weeks)	Estimate and measure weight and capacity/volume.			Pre-Entry Level qualifications unit(s).
		Converting between different units of measure (g/kg or ml/l).	Approximate equivalences between metric and imperial units.			
		Estimating and measuring.	**MeasureMoney (3 weeks)**			
			Add, subtract, multiply and divide amounts of money to give change, using both £ and p in practical contexts.			
		Measure Time (3 weeks)				
		Read, write and convert time between analogue and digital 24 hour clocks.	**Measure Time (3 weeks)**			
		Solve problems converting from hours to minutes, minutes to seconds, years to months, weeks to days.	Solve problems involving converting between units of time.			
		Introduce timetables.	Reading and interpreting timetables (Statistics).			
		Measure Money (3 weeks)				
		Add, subtract, multiply and divide amounts of money to give change, using both £ and p in practical contexts.	**Addition and Subtraction (3 weeks)**			
			Add and subtract whole numbers with more than 4-digits using formal written methods.			
		Addition and Subtraction (3 weeks)	Add and subtract increasingly large numbers, mentally.			
		Add and subtract numbers with up to 4 digits using formal written methods.	Multi-step problems involving addition and subtraction.			
		Two-step problems involving addition and subtraction.	Rounding to check answers to calculations.			
		Estimate and use inverse operations to check.				

Sum (10 weeks)		**Measure Length and Height (2 weeks)**	**Place Value (2 weeks)**	AQA calendar and time	AQA	Pathway 1

Measure Length and Height (2 weeks)

Converting between different units of measure (mm/cm/m).

Estimating and measuring.

Measure and calculate the perimeter of rectangles.

Measure and calculate the area of rectangles by counting squares.

Place Value (2 weeks)

Identify, represent and estimate numbers, including using a number line and manipulatives.

Compare and order numbers beyond 1000.

Recognise the place value in ThHTU.

Round numbers to the nearest 10, 100, 1000.

Multiplication and Division (2 weeks)

Recall multiplication & division facts to 12x12.

Recognise and use factor pairs & commutativity in mental maths.

Multiply 2-digit and 3-digit numbers by 1-digit numbers using formal written methods.

Statistics (2 weeks)

Tallies and frequency tables.

Interpret and present data in bar graphs and line graphs.

Compare, sum and difference problems based on them.

Geometry – Position, direction and motion (2 weeks)

Coordinates in the first quadrant – plot points and draw shapes.

Describe movements between positions as transitions.

Place Value (2 weeks)

Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.

Round decimals with 2 decimal places to the nearest whole number/one decimal place (Fractions).

Ordering numbers with up to three decimals places (Fractions).

Multiplication and Division (2 weeks)

Multiples and factors.

Use long multiplication to multiply up to 4-digit numbers by 1- or 2-digit numbers.

Use short division to divide up to 4-digit numbers by a 1-digit number.

Problems involving remainders.

Square numbers and cube numbers.

Prime numbers.

Measure Length and Height (2 weeks)

Convert between km/m/cm/mm.

Measure and calculate the perimeter of composite rectilinear shapes in cm and m.

Work out the area of rectangles using standard units (cm_2 and m_2).

Approximate equivalences between metric and imperial units.

Statistics (2 weeks)

Complete, read and interpret information in tables, including timetables.

Compare, sum and difference problems based on them.

Introduce pie charts.

Calculate and interpret the mean as an average

Geometry – Position, direction and motion (2 weeks)

Coordinates in the first quadrant.

Describe the position of a shape following a reflection or translation, knowing the

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AQA calendar and time

Consolidation of skills.

AQA

Money

Consolidation of skills. Ensure all portfolios are completed and evidence ready to pass to Y11.

Pathway 1

Exam preparation for Level 1/2 Functional Maths Paper

Pathway 2

Functional Maths focus – money and time real life skills.

Pre-Entry Level qualifications unit(s).

shape has not changed.

Revisit:

Estimate and measure angles in degrees.

Work out angles on a point on a straight line (total 180°) and within a whole turn (360°).

Resources:

Useful subject links: