Kingfishers Maths - Autumn Term 1&2

Key Stage/Year	Lower/Upper KS4
Approximate Number of Lessons and Term	Autumn Term 1 - 30 Autumn Term 2 - 40
Qualification/Exam (if applicable)	GCSE Foundation Maths

Consideration of prior learning	Work following SOW for previous classes from previous academic year, differentiation within the topic to provide for both lower and higher achievers
How will learners' knowledge, skills and understanding be checked at the start of the unit?	Teacher has already taught this group so knows each individual learners' strengths and areas for development

How will learners' knowledge, skills and understanding be checked at the end of the unit?	Assessment tests covering topics covered in both terms and scores entered into Academic Tracker GCSE mock papers as part of assessment to allow familiarity with question type, length of paper and first of questions

Learning Outcome	Approx. No. of Lessons	Potential Activities	Behaviour/Safety/Personal Development/SMSC Opportunities
Geometric reasoning	5	Angles at a point Angles at a straight line Vertically opposite angles Angle and line properties in 2D shapes Chrome book practise using My Maths activities	Full, half and quarter turns Importance of right angles
Averages and range	5	Mean Range Median and mode Frequency tables Estimating the mean My Maths activities	Use of averages Where we won't have exact data News
Powers of 10 and standard form	5	Powers of 10 Large and small numbers in standard form Decimals in standard form	Why standard form is useful and where it is used
Revision and assessment	5	My Maths practice Assessment test and or mock GCSE papers	Working in exam conditions Time pressure Checking work Managing anxiety
Fractions, decimals and percentages	10	Meaning of percentage Conversions between the three different formats Fraction of an amount Percentage of amount both non calculator and calculator methods	Use of a calculator Mental methods Real life situations

		Percentages and fractions greater than 1 or 100%	
Factors and multiples	10	Common factors and HCF Common multiples and LCM Prime factors Venn diagrams Prime factor trees Using factors and multiples to simplify calculations	Sharing things out efficiently Buying economically The importance of prime numbers What does a venn diagram show?
Scale diagrams & bearings	5	Nets Plans and elevations Scale diagrams Bearings	Volume Packaging/recycling Map reading DIY
Algebra	5	1 step equations using inverse operations Like and unlike terms Collecting like terms Equivalence	Meaning of inverse Balance
Fractions	5	MIxed numbers Improper fractions Addition and subtraction of fractions	Different ways of representing parts of numbers and why useful
Decimals	5	Addition and subtraction of decimals with same and different number of decimal places Sums involving whole numbers Sequences	What the decimal point signifies Money and other metric measures Importance of estimation
Assessment	5	Practice non calculator and calculator papers EL paper practice for FS students	

Possible Adaptations for Higher and Lower Achievers	Higher achievers - larger and more complex numbers, worded problems, creating their own questions for partner to solve, development of checking strategies, more challenging tasks set on My Maths Lower achievers - Sums set out more clearly and spaced more widely, scaffolding provided in terms of step by step approach, creating question for an answer provided to promote thinking, further consolidation of key skills using My Maths or lower level worksheets from WRM