

Plan Of Learning For The Year (Unit/Topic/Project Context)

Half Term 1

- Sequences
- Algebraic Notation (Function machines and Substitution)
- Equality and Equivalence (Simplifying Expressions and Solving Equations)

Half Term 2

- Place Value
- Fraction, Decimal and Percentage Equivalence

Half Term 3

- Solving Problems with Addition and Subtraction
- Solving Problems with Multiplication and Division
- Fractions and Percentages of Amounts

Half Term 4

- Operations with Directed Number (Negative Numbers)
- Addition and Subtraction of Fractions

Half Term 5

- Constructing, Measuring and Developing Geometric Notation (Use of a Protractor and a Pair of Compasses)
- Develop Geometric Reasoning (Angle Facts)

Half Term 6

- Number Sense (Rounding and Estimation)
- Sets and Probability
- Prime Numbers and Proof

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
<ul style="list-style-type: none"> • Self and peer assessment • Weekly exit tickets (a check of understanding of key skills, marked by teacher) • Termly teacher marked assessments • Regular whiteboard work • Live marking by teacher in lesson 	<ul style="list-style-type: none"> • UKMT (UK Mathematics Trust) Junior Challenge— all students have the opportunity to partake in this nationwide problem solving competition) • Research The Fibonacci Sequence and where there are links in real life, such as in nature and art. • Dr Frost Maths for extra practice • Read 'The Number Devil' 	<ul style="list-style-type: none"> • Links to famous mathematicians made throughout. • Learning about financial maths, including money problems and using bank statements. • Problem Solving – a transferrable skill for many careers.

Common misconceptions	Connecting New Knowledge	Challenge for all
<ul style="list-style-type: none"> • Exit tickets designed to address predicted misconceptions. • Whiteboard questions used in lessons have misconceptions embedded throughout 	<ul style="list-style-type: none"> • Curriculum Maps to show sequencing of topics • Knowledge organisers stuck in at the start of each new topic and referred to throughout the unit • Retrieval starters promotes revisiting of skills taught in previous lessons • Many topics are building on previous knowledge from KS2. 	<ul style="list-style-type: none"> • Problem Solving opportunities in all lessons • UKMT Challenge (UK Mathematics Challenge) questions used on a regular basis in lesson • Questioning used to challenge mathematical thinking

