Department: Maths	Year 7

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
- 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	- 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'	- 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
- Exit tickets designed to address predicted misconceptions. - Whiteboard questions used in lessons have misconceptions embedded throughout	- 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.	- 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