MATHEMATICS
Year 7 Curriculum road map

HT1

AUTUMN TERM
SEQUENCES, PLACE VALUE

STUDENTS WILL RECOGNISE, DESCRIBE AND CONTINUE SEQUENCES, LINKING THIS TO TABULAR AND GRAPHIOCAL REPRESENTATIONS.
STUDENTS WILL COMPARE, ORDER AND ROUND NUMBERS, BUILDING ON THEIR UNDERSTANDING OF INTEGERS & DECIMALS.
CHALLENGE: *INVESTIGATING POWERS*

HT2

AUTUMN TERM
DIRECTED NUMBER, ALGEBRAIC NOTATION

STUDENTS WILL BUILD THEIR UNDERSTANDING OF NEGATIVE NUMBERS, PERFORMING CALCULATIONS THAT CROSS ZERO.
STUDENTS WILL DEVELOP THEIR KNOWLEDGE OF ALGEBRA, WORKING WITH FUNCTION MACHINES AND USING SUBSTITUTION
CHALLENGE: *EVALUATE ALGEBRAIC EXPRESSIONS WITH DIRECTED NUMBER*

HT3

SPRING TERM
EQUALITY & EQUIVALENCE, FDP EQUIVALENCE

STUDENTS WILL BUILD ON THEIR UNDERSTANDING OF EQUALITY, TRANSFERRING THIS INTO ALGEBRAIC FACTS, SO THEY ARE ABLE TO COLLECT LIKE TERMS AND SOLVE EQUATIONS.
STUDENTS WILL WORK FLUENTLY BETWEEN FRACTIONS, DECIMALS AND PERCENTAGES.
CHALLENGE: *EXPLORE FDP ABOVE ONE WHOLE*

HT4

SPRING TERM
ADDITION, SUBTRACTION, MULTIPLICATION & DIVISION

STUDENTS WILL SOLVE PROBLEMS USING THE FOUR KEY MATHEMATICAL OPERATIONS, USING MENTAL AND MORE FORMAL METHODS TO WORK WITH DECIMALS. THESE SKILLS WILL BE APPLIED TO A VARITY OF TOPIC AREAS.
CHALLENGE: *EXPLORE MULTIPLICATION/DIVISION WITH ALGEBRA*

HT5

SUMMER TERM
FRACTIONS & PERCENTAGES OF AMOUNTS, ADDING & SUBTRACTING FRACTIONS, GEOMETRIC NOTATION

STUDENTS WILL FIND FRACTIONS AND PERCENTAGES OF AMOUNTS.
STUDENTS WILL REPRESENT FRACTIONS IN A VARIETY OF FORMS ALLOWING THEM TO ADD & SUBTRACT FRACTIONS, IMPROPER FRACTIONS AND MIXED NUMBERS.
STUDENTS WILL DRAW & MEASURE ANGLES, USE LABELLING CONVENTIONS AND RECOGNISE POLYGONS
CHALLENGE: *ADD & SUBTRACT ALGEBRAIC FRACTIONS*

HT6

SUMMER TERM
DEVELOPING GEOMETRIC REASONING

STUDENTS WILL BUILD ON THEIR GEOMETRIC KNOWLEDGE, UNDERSTANDING AND APPLYING ANGLE RULES.
STUDENTS WILL SOLVE COMPLEX PROBLEMS INTERLINKING THEIR KNOWLEDGE OF SHAPES.
CHALLENGE: *USE KNOWN FACTS TO OBTAIN SIMPLE EOMETRIC PROOF*