

# MATHEMATICS

## Year 11 Curriculum road map (F)

### AUTUMN TERM

#### 1. GRADIENTS & LINES, 2. NON-LINEAR GRAPHS

WORK WITH GRADIENTS, INTERCEPTS AND COORDINATES, FINDING THE EQUATION OF A LINE GIVEN DIFFERENT VALUES.  
PLOT & READ FROM QUADRATIC, CUBIC AND RECIPROCAL GRAPHS, IDENTIFYING ROOTS, INTERCEPTS & GRAPH SHAPES.

**HT1**

**HT2**

### AUTUMN TERM

#### 3. USING GRAPHS, 4. MULTIPLICATIVE REASONING

CONSTRUCT & INTERPRET PIECEWISE & DISTANCE-TIME GRAPHS;  
FIND APPROXIMATE SOLUTIONS TO EQUATIONS USING GRAPHS.  
WORK WITH PROPORTION, SOLVING CURRENCY & VALUE PROBLEMS.

**HT3**

### SPRING TERM

#### 5. ALGEBRAIC MANIPULATION

EXPAND & FACTORISE BRACKETS, SOLVE EQUATIONS INCLUDING QUADRATICS (BY FACTORISING) AND CHANGE THE SUBJECT OF A FORMULA.

**HT4**

### SPRING TERM

#### 7. GEOMETRIC REASONING, 8. TRANSFORMING & CONSTRUCTING

WORK WITH ANGLES - USING RULES, PARALLEL LINES, POLYGONS, BEARINGS, PYTHAGORAS AND TRIGONOMETRY.  
PERFORM & DESCRIBE TRANSFORMATIONS: TRANSLATIONS, ROTATIONS, REFLECTIONS AND ENLARGEMENTS.  
SOLVE LOCI PROBLEMS.

**HT5**

### SUMMER TERM

REVISION & FINAL GCSE EXAMINATIONS

**HT6**

### SUMMER TERM

FINAL GCSE EXAMINATIONS