Maths

Curriculum & Rubric Map Overview

2025-2026

Year 7

The table below details the skills and knowledge students will be covering each half term in Drama.
Time frames for when students will complete their Interim and Masters Assessments have also been given. Both assessments will aim to assess the knowledge and skills a student has covered up to that point in their education, this also includes the curriculum covered in the previous year/s.

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Knowledge and skills that will be covered during this half term.	**Number Skills** • Perform the four operations to calculations including those with negative and decimal numbers • Apply BIDMAS to solve calculations • Understand place value and round numbers to a given degree of accuracy **Probability** • Understand the probability scale with words and numbers • Write probabilities as fractions • Construct and interpret a sample space diagram • Construct and interpret a Venn diagram **Conversions and compound measures** • Convert between units of length, capacity and mass • Solve time problems • Complete and interpret timetables **Expressions and formulae** • Simplify algebraic expressions • Substitute into simple algebraic formula • Expand a single bracket • Factorise a single bracket	**Ratio and proportion** • Use proportion to solve problems • Simplify ratios • Share a quantity into a given ratio **Perimeter and Area** • Calculate the area and perimeter of 2D shapes including squares, rectangles and triangles **Fractions** • Simplify fractions • Recognise and generate equivalent fractions • Convert fractions • Add and subtract fractions	**Angles** • Categorise angles • Estimate, draw and measure angles • Find missing angles on a straight line, around a point and in a triangle **Graphs** • Plot and read coordinates • Draw and recognise horizontal lines • Draw and recognise the graphs of y=x and y=-x **Percentages** • Calculate percentages of an amount • Convert percentages to fractions and decimals • Calculate percentage increase and decrease	**Statistics and Data** • Interpret different representations of data • Calculate averages from a set of data **Transformations** • Identify lines of symmetry and rotational symmetry of 2D shapes • Rotate and Reflect 2D shapes **Solving equations** • Understand function machines • Solve equations with one unknown	**Indices and Roots** • Calculate the first 12 square numbers and corresponding roots • Calculate the first 5 cube numbers and corresponding roots • Understand indices **Bearings and scale** • Convert between units of measure • Apply conversions to scale drawings **Factors, Multiples and Primes** • Identify factors and multiples of numbers • Identify the HCF and LCM of numbers • Understand the definition of a prime number	**Sequences** • Understand and find missing terms in different types of sequences **Constructions and shapes** • Describe 3D shapes • Start to explore volume of 3D shapes
Assessments	Assessment work will include a unit test at the end of each unit.	Assessment work will include a unit test at the end of each unit **Interim Assessment 1**	Assessment work will include a unit test at the end of each unit	Assessment work will include a unit test at the end of each unit **Interim Assessment 2**	Assessment work will include a unit test at the end of each unit	Assessment work will include a unit test at the end of each unit **Masters Assessment**

Maths

Curriculum & Rubric Map Overview

2025-2026

Year 8

The table below details the skills and knowledge students will be covering each half term in Drama.

Time frames for when students will complete their Interim and Masters Assessments have also been given. Both assessments will aim to assess the knowledge and skills a student has covered up to that point in their education, this also includes the curriculum covered in the previous year/s.

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Knowledge and skills that will be covered during this half term	**Number Skills** • Perform the four operations to calculations including those with negative and decimal numbers • Apply BIDMAS to solve calculations • Understand place value and round numbers to a given degree of accuracy • Estimate answers to calculations **Probability** • Understand that probability sums to 1 • Write probability as a fraction, decimal or percentage • Find the relative frequency of an event **Conversions and compound measures** • Convert between units of length, mass, capacity and time • Solve simple speed, distance time questions **Expressions and formulae** • Expand and factorise single brackets with coefficients • Expand and simplify multiple single brackets • Expand double brackets • Factorise quadratic expressions	**Ratio and proportion** • Convert between ratio and fractions • Solve problems when sharing into a give ratio **Perimeter and Area** • Calculate the area and perimeter of 2D shapes including squares, rectangles, triangles, parallelograms and trapeziums • Find the area and perimeter of rectilinear compound shapes **Fractions** • Convert Fractions • Apply the four operations to fractions	**Angles** • Find missing angles on straight lines, around a point, in triangles quadrilaterals • Understand and apply the rules of angles on parallel lines **Graphs** • Plot graphs in the form y=mx+c • Complete table of values for quadratic graphs **Percentages** • Work with multiples to calculate any percentage of an amount • Work with multipliers to increase or decrease an amount by a given percentage	**Statistics and Data** • Accurately draw and interpret pie charts • Calculate averages from a set of data, including from a frequency table **Transformations** • Reflect, Rotate, Translate and enlarge 2D shapes • Identify similar shapes **Solving Equations** • Solve equations with one or two unknowns • Apply solving equations to problems linked to other aspect of the curriculum, such as area and perimeter	**Indices and Roots** • Simplify expressions using knowledge of indices • Begin to apply the rules of indices to simplify expressions **Bearings and scale** • Apply knowledge of unit conversions to maps • Understand the rules of 3 figure bearings **Factors, Multiples and Primes** • Solve problems involving the HCF and LCM • Find the prime factor decomposition of a number	**Sequences** • Begin to apply algebra to linear sequences **Constructions and shapes** • Describe 3D shapes • Calculate the volume of 3D shapes
Assessments	Assessment work will include a unit test at the end of each unit.	Assessment work will include a unit test at the end of each unit **Interim Assessment 1**	Assessment work will include a unit test at the end of each unit	Assessment work will include a unit test at the end of each unit **Interim Assessment 2**	Assessment work will include a unit test at the end of each unit	Assessment work will include a unit test at the end of each unit **Masters Assessment**

Maths

Curriculum & Rubric Map Overview

2025-2026

Year 9

The table below details the skills and knowledge students will be covering each half term in Drama.
Time frames for when students will complete their Interim and Masters Assessments have also been given. Both assessments will aim to assess the knowledge and skills a student has covered up to that point in their education, this also includes the curriculum covered in the previous year/s.

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Knowledge and skills that will be covered during this half term.	**Number Skills** • Perform the four operations, in the correct order, to calculations including those with negative and decimal numbers • Estimate answers to calculations • Calculate the upper and lower bounds and error intervals of numbers rounded to a given degree of accuracy **Probability** • Compare relative frequency and theoretical probability • Calculate expected probability • Complete a tree diagram for independent events **Conversions and compound measures** • Convert between units for length, mass, capacity, area and volume • Convert time into fractions and decimals of hours • Calculate Speed, Distance, Time problems • Solve other compound measure problems **Expressions and formulae** • Expand and simplify multiple single brackets • Expand double and triple brackets • Factorise single brackets and quadratic expressions • Substitute multiple values into complex formulae (including scientific formulae) • Change the subject of a formula	**Ratio and Proportion** • Solve problems when sharing into a give ratio • Solve proportion problems, including best buy problems • Plot and interpret conversion graphs **Perimeter and Area** • Find the area and perimeter of 2D shapes including compound shapes. • Calculate the area and circumference of circles, semi circles and quarter circles **Fractions** • Apply the four operations to fractions, including mixed numbers	**Angles** • Apply angle fact to calculate missing angles • Calculate interior and exterior angles in polygons **Graphs** • Plot linear and quadratic graphs • Identify and calculate the gradient of lines • Solve linear equations graphically **Percentages** • Use multiplies to solve problems involving percentages • Calculate percentage change • Solve problems involving repeated percentage change	**Statistics and Data** • Accurately draw and interpret pie charts • Plot and interpret scatter graphs • Calculate averages from a set of data, including from a frequency table **Transformations** • Reflect, Rotate, Translate and enlarge 2D shapes and describe transformations • Understand similarity and congruency **Solving Equations** • Solve quadratic expressions through factorising	**Indices and Roots** • Apply the rules of indices to simplify expressions • Understand and write numbers using standard form notation • Simplify surds **Bearings and scale** • Draw and measure 3 figure bearings • Apply knowledge of bearings and scales to construct and interpret scale diagrams **Factors, Multiples and Primes** • Use the prime factor decomposition and Venn diagrams to find the HCF and LCM of any numbers • Solve problems involving HCF and LCM	**Sequences** • Find and use the nth term of linear sequences **Constructions and shapes** • Calculate the volume of 3D shapes • Understand loci • Apply right angled trigonometry to find missing sides and angles
Assessments	Assessment work will include a unit test at the end of each unit.	Assessment work will include a unit test at the end of each unit **Interim Assessment 1**	Assessment work will include a unit test at the end of each unit	Assessment work will include a unit test at the end of each unit **Interim Assessment 2**	Assessment work will include a unit test at the end of each unit	Assessment work will include a unit test at the end of each unit **Masters Assessment**

Maths

Curriculum & Rubric Map Overview

2025-2026

Year 10

The table below details the skills and knowledge students will be covering each half term in Drama.

Time frames for when students will complete their Interim and Masters Assessments have also been given. Both assessments will aim to assess the knowledge and skills a student has covered up to that point in their education, this also includes the curriculum covered in the previous year/s.

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Knowledge and skills that will be covered during this half term.	**Number Skills** • Calculate the upper and lower bounds and error intervals of numbers that have been rounded to a given degree of accuracy • Understand truncation • Apply bounds to additional and multiplication calculations **Probability** • Calculate expected probabilities • Construct and complete tree diagrams for independent events • Construct and complete tree diagrams for conditional events • Apply the product rule for counting **Conversions and compound measures** • Convert between units of measure • Solve Speed, Distance, Time problems • Interpret distance time graphs • Interpret speed time graphs **Expressions and formulae** • Factorise quadratic expressions including those with coefficients • Expand and simplify double and triple brackets • Recognise and express the difference of 2 squares • Equate identities • Complete the square	**Ratio and Proportion** • Solve ratio problems • Solve problems with direct and inverse proportion **Perimeter and Area** • Find the area and perimeter of a sector • Calculate surface area of different 3D shapes **Fractions** • Solve problems involving the four operations with fractions, including mixed numbers • Change recurring decimals to fractions • Apply the four operations to algebraic fractions	**Angles** • Calculate interior and exterior angles • Form and solve equations using angle facts • Begin to explore circle theorems **Graphs** • Draw and interpret linear and quadratic graphs • Recognise different types of graphs • Find the equations of lines **Percentages** • Solve problems involving percentages • Understand simple and compound interest • Solve problems involving compound growth and decay	**Statistics and Data** • Calculate averages from a set of data, including frequency and grouped frequency tables • Interpret a range of data representations • Draw and interpret box plots **Transformations** • Understand similarity and congruency • Complete and describe different transformations • Understand and apply vector notation **Solving equations** • Solve quadratic expressions through different methods such as factorising, completing the square or quadratic formula • Understand iteration • Understand functions	**Indices and Roots** • Apply the rules of indices to simplify expressions • Understand and apply standard form notation to calculations • Understand and complete calculations with surds **Bearings and scale** • Solve problems involving 3 figure bearings, including having to draw and measure • Solve problems involving bearings and scale drawings **Factors, Multiples and Primes** • Use the prime factor decomposition and Venn diagrams to find the HCF and LCM of any numbers • Solve problems involving HCF and LC	**Sequences** • Find the nth term of linear and quadratic sequences • Apply knowledge of types of sequences to algebraic questions **Constructions and shapes** • Solve problems involving volume of 3D shapes • Apply trigonometry, right angled and non right angled • Understand and construct loci
Assessments	Assessment work will include a unit test at the end of each unit	Assessment work will include a unit test at the end of each unit Interim Assessment 1	Assessment work will include a unit test at the end of each unit	Assessment work will include a unit test at the end of each unit Interim Assessment 2	Assessment work will include a unit test at the end of each unit	Assessment work will include a unit test at the end of each unit as well as mock GCSE papers 1, 2 and 3

Maths

Curriculum & Rubric Map Overview

2025-2026

Year 11

The table below details the skills and knowledge students will be covering each half term in Drama.

Time frames for when students will complete their Interim and Masters Assessments have also been given. Both assessments will aim to assess the knowledge and skills a student has covered up to that point in their education, this also includes the curriculum covered in the previous year/s.

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Knowledge and Skills that will be covered this half term	**Number Skills** • Apply the 4 operations in context, including to negative numbers and decimals • Estimate complex calculations • Find the error interval of rounded numbers • Apply bounds to calculations **Probability** • Calculate probability and relative frequency of events • Draw probabilities from diagrams, such as Venn diagrams • Construct and complete tree diagrams **Conversions and compound measures** • Convert between difference units of measure • Solve compound measure problems • Draw and interpret distance time graphs and speed time graphs **Expressions and formulae** • Expand and simplify multiple brackets • Factorise single brackets and quadratic expressions • Change the subject of a formula • Substitute into a formula • Manipulate algebraic fractions	**Ratio and Proportion** • Solve ratio problems • Solve problems with direct and inverse proportion **Perimeter and Area** • Solve problems involving area and perimeter • Solve problems involving area and circumference of circles • Calculate surface area of different 3D shapes **Fractions** • Solve problems involving the four operations with fractions, including mixed numbers • Change recurring decimals to fractions • Solve problems involving algebraic fraction	**Angles** • Solve problems involving missing angles • Calculate interior and exterior angles • Form and solve equations using angle facts • Derive and apply circle theorems **Graphs** • Draw and interpret linear and quadratic graphs • Recognise different types of graphs • Find the equations of lines • Recognise and sketch graphs of circles • Recognise and interpret trigonometric graphs **Percentages** • Solve problems involving percentages • Understand simple and compound interest • Solve problems involving compound growth and decay • Solve problems involving repeated rates of change	**Statistics and Data** • Solve problems involving averages from a set of data, including frequency and grouped frequency tables • Interpret a range of data representations • Draw and interpret box plots • Construct and interpret histograms **Transformations** • Understand similarity and congruency • Complete and describe different transformations • Understand invariance • Understand and apply vector notation **Solving equations** • Solve problems involving linear equations • Solve quadratic expressions through different methods such as factorising, completing the square or quadratic formula • Solve problems involving iteration • Solve problems involving functions	**Exam Preparation** • Students will cover all aspects of the curriculum and apply their prior knowledge to practise exam style questions • Students will focus on applying exam technique to all aspect of the mathematics curriculum	
Assessments	Assessment work will include a unit test at the end of each unit	Mock examination of all 3 papers	Assessment will include a variety of small mock exams of questions from across the 3 papers	Mock examination of all 3 papers	Assessment will include an external examination: Paper 1 (Non-Calculator), Paper 2 (Calculator) and Paper 3 (Calculator)	