



(Maths) AT PLECKGATE

YEAR (7) LEARNING JOURNEY



YEAR
8

Equations and Inequalities

- Solve inequalities with one variable
- Represent inequalities on a number line
- Solve equations involving brackets
- Construct and solve linear equations
- Solve equations involving fractions
- Solve linear equations with 2 unknowns
- Know all algebraic notation
- Solve linear equations
- Describe transformations

End of year consolidation

Data and charts

- Know and apply averages to stem and leaf data
- Calculate averages from frequency tables
- Plot coordinates in all 4 quadrants
- Construct simple bars and charts
- Enlarge and Rotate shapes
- Use coordinates to solve transformation problems
- Reflect and translate shapes
- Find the midpoint of a line segment

Transformations

Ratio, proportion and sequences consolidation

- Understand discrete and continuous data
- Know and calculate the averages and range for data
- Know the vocab of sequences
- Use proportion to compare amounts
- Compare equivalent ratios
- Use direct proportion
- Explore different types of sequences
- Use and apply the unitary method
- Use and apply ratio notation
- Solve problems involving ratios

Sequences

Proportional Reasoning

Find the nth term of a sequence

Generate and describe sequences

Use and apply the unitary method

Use and apply ratio notation

Solve problems involving ratios

Calculating Space

Constructions and Visualisation

Area and Constructions consolidation

- Calculate the area of various shapes
- Calculate the area of compound shapes
- Calculate the surface area of cuboids
- Complete tessellation of shapes
- Know how to calculate volume of shapes
- Simplify ratios
- Solve percentage problems
- Use nets to visualise shapes
- Bisect angles and lines
- Construct triangles and kites
- Use fractions and percentages to compare proportions

Fraction, Decimals and Percentages

Add and subtract simple fractions

Know how to substitute into powers

Know how to collect like terms

Know all your angle facts

Understanding Algebra

Numeracy and Arithmetic assessment

Understanding Angles

Solve problems involving fractions, decimals and percentage equivalence

Multiply and divide fractions

Find equivalent fractions

Know how to expand brackets

Solve problems involving polygons

Show you can use a protractor accurately