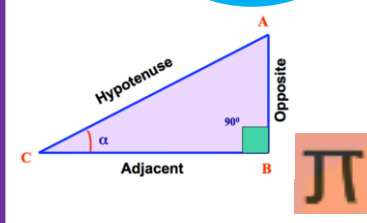


The Piggott School: Wargrave (Secondary) Mathematics Learning Journey

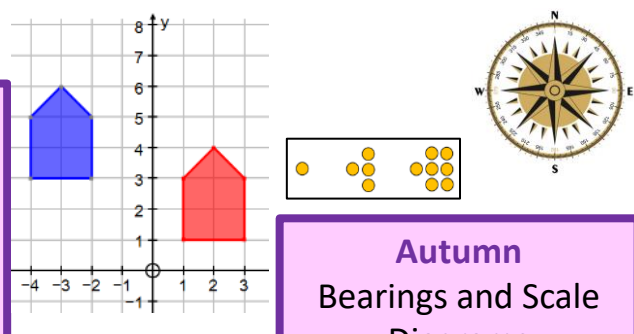


GCSEs and beyond

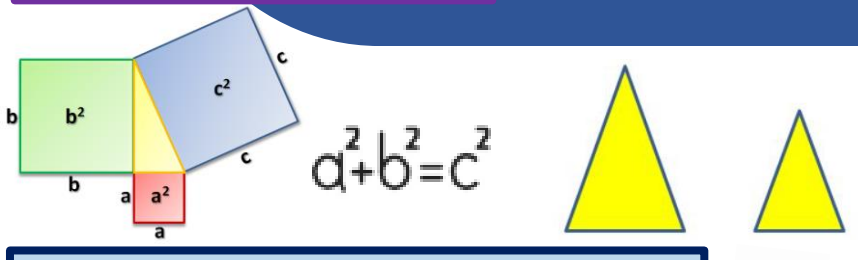
Summer
 Similar Figures
 Trigonometry
 Organising, Presenting and Analysing Data
 Inequalities
 (Circle Theorems)



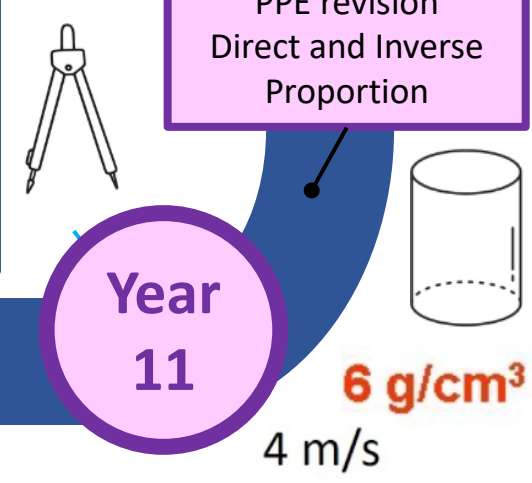
Spring
 Graphs
 Compound Units
 Solving Equations
 Functions and Graphs
 Vectors
 Exact calculations



Autumn
 Bearings and Scale Diagrams
 Probability
 Sequences
 Transformations
 PPE revision
 Direct and Inverse Proportion

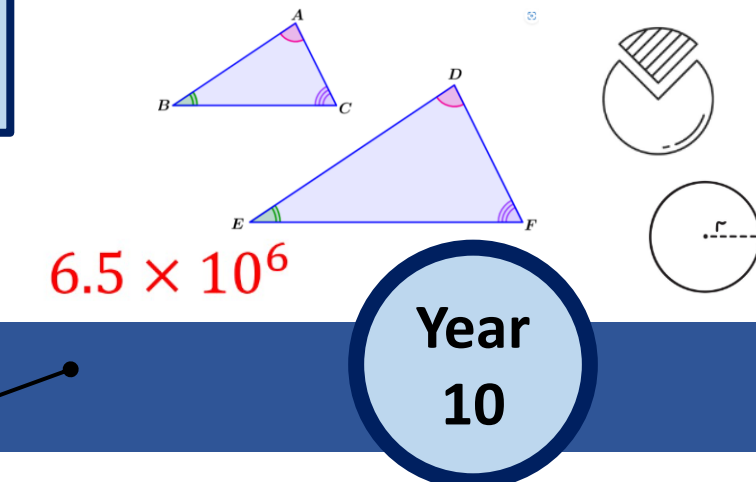


Summer
 Graphical Solution of Equations
 Percentage Change
 Bearings and Scale Diagrams
 Constructions and Loci
 Angles in Polygons
 Circles, Spheres and Pyramids



Spring
 Surds
 Congruent and Similar Shapes
 Bivariate Data
 Pythagoras' Theorem and Trigonometry
 Organising, Presenting and Analysing Data
 Fractions and Decimals
 Accuracy and Bounds
 Simultaneous Equations

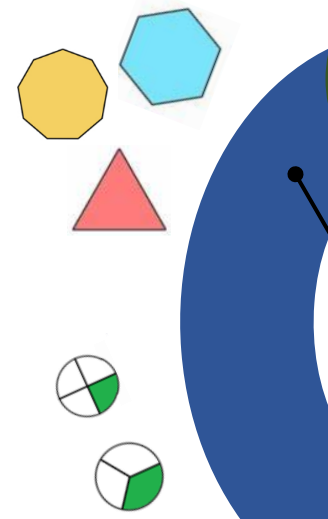
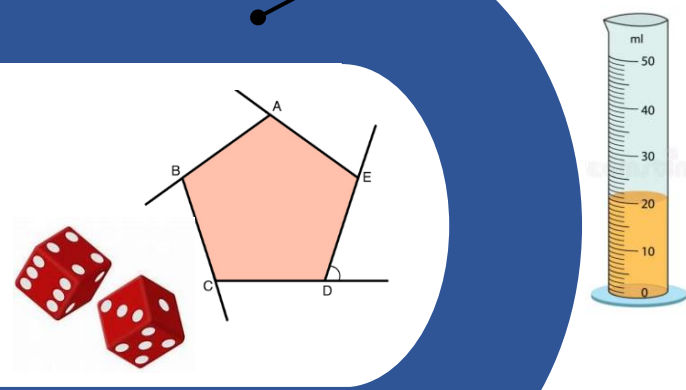
Autumn
 Indices and Standard Form
 Algebraic Manipulation and Solution of Equations
 Data collection and Sampling
 Inequalities



Summer
 Percentages
 Perimeter, Area and Volume (Circles and Cylinders)
 Charts and Averages
 Compound Units

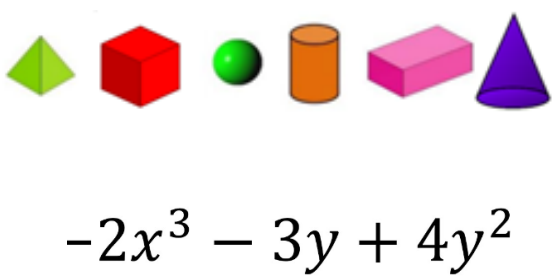
$5x - 7 = 3x + 11$ \neq
 $x + 7 > 4$
 $3x - 5 \geq 8x - 6$

Autumn
 Integers, Indices, Factors and Multiples
 Expressions, Formulae and Equations
 Angles and Angles in Polygons
 Fractions and Decimals
 Theoretical and Experimental Probability



Year 9

Summer
 Geometry and Measures
 Angles and Polygons



Spring
 Sequences and Functions
 Straight Line Graphs and Gradients
 2D and 3D Shapes
 Estimation and Approximation
 Ratio and Proportion
 Transformations

Spring
 Fractions
 Percentages



Autumn
 Manipulating and simplifying expressions

Year 8

Summer
 Directed Numbers
 An Introduction to Algebraic Thinking

Spring
 Powers, Roots and Primes
 Order of Operations

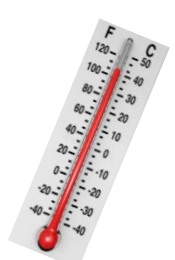
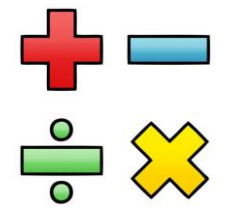
$\sqrt[3]{64} = 4$
 $2^5 = 32$

1			
1/2	1/2		
1/3	1/3	1/3	
1/4	1/4	1/4	1/4
1/5	1/5	1/5	1/5
1/6	1/6	1/6	1/6
1/7	1/7	1/7	1/7
1/8	1/8	1/8	1/8

$\sqrt{9} = 3$

Year 7

Autumn
 Further exploration of Place Value and the Number Line,
 Addition and Subtraction,
 Multiplication and Division



$3x + 5y - 9$

Throughout KS3 and KS4, students will encounter:

- Challenges which will require quiet reflection, collaboration with peers and mutual support.
- Opportunities for students to enjoy seeking patterns and to learn to work in an increasingly systematic manner
- Challenges which can help to foster listening skills and dialogue, determination and resilience.
- Opportunities to use one's initiative, to develop one's powers of visualisation and analysis and to expand one's imagination
- Challenges to make careful use of vocabulary, notation, diagrams and graphs to convey one's thought processes clearly and concisely
- Opportunities to develop greater flexibility and precision of thinking and to study concepts in depth.

Years 7 to 11