Our Lady and St. Bede Catholic Academy

Subject Curriculum – Year 8 Theta



Big Ideas & The aims of teaching and learning mathematics are to encourage and enable students to: recognize that mathematics permeates the world around us; appreciate the usefulness, power and beauty of mathematics; enjoy mathematics and develop patience and persistence when solving problems in school and real-life and appreciate the international dimension of mathematics and its multicultural and historical perspectives.

Programme of	HT1	HT2	HT3	HT4	HT5	HT6
Study	Number Calculations Powers and roots	Statistics, graphs and charts Pie charts	Real-life graphs Conversion graphs Distance-time graphs	Lines and angles Quadrilaterals Alternate angles and proof	Calculating with fractions Adding and subtracting	Percentages, decimals and fractions Fractions and decimal
	Powers and roots Powers, roots and brackets Multiples and factors Area and volume Area of a triangle Area of a parallelogram and trapezium Volume of cubes and cuboids 3D shapes Surface area of cubes and cuboids Problems and measures	Using tables Stem and leaf diagrams Comparing data Scatter graphs FINANCE: Misleading graphs Expressions and equations Algebraic powers Expressions and brackets Factorising expressions One-step equations Two-step equations	Line graphs Line graphs Complex line graphs STEM: Graphs of functions More real-life graphs Decimals and ratio Ordering decimals and rounding Place-value calculations Calculations with decimals Ratio and proportion with decimals STEM: Using ratios	Geometrical problems Exterior and interior angles Solving geometric problems	Adding and subtracting fractions Multiplying fractions Fractions, decimals and reciprocals Dividing fractions Calculating with mixed numbers Straight-line graphs Direct proportion on graphs Gradients Equations of straight lines STEM: Direct proportion	Fractions and decimal Equivalent proportion Writing percentages Percentages of amounts FINANCE: Solving problems
Key Assessments	 The balancing method Assessments take place after every unit. Usually 2 per half term. 		Assessments take place after every unit.Usually 2 per half term.		 Year 8 will also take an end of year examination in the summer term. 	

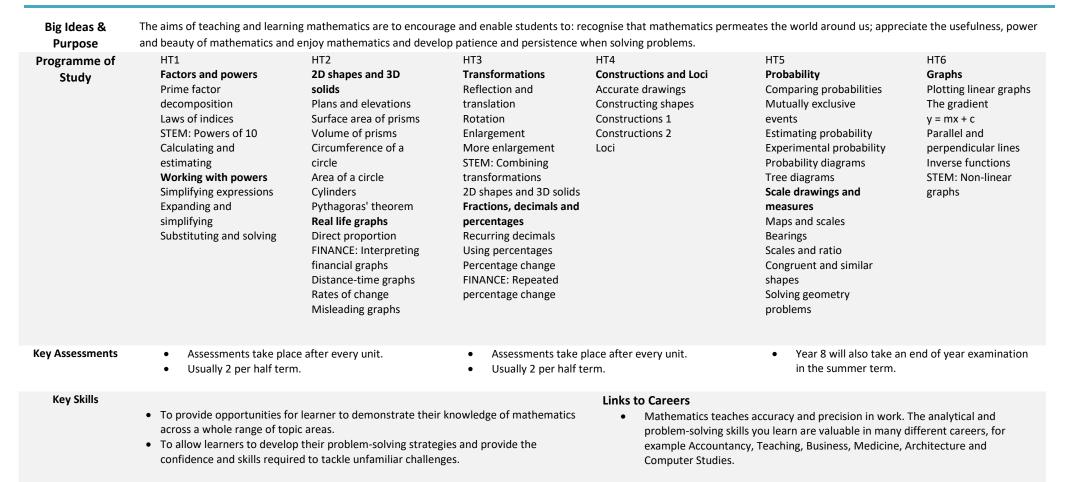
Key Skills

- To provide opportunities for learner to demonstrate their knowledge of mathematics across a whole range of topic areas.
- To allow learners to develop their problem-solving strategies and provide the confidence and skills required to tackle unfamiliar challenges.

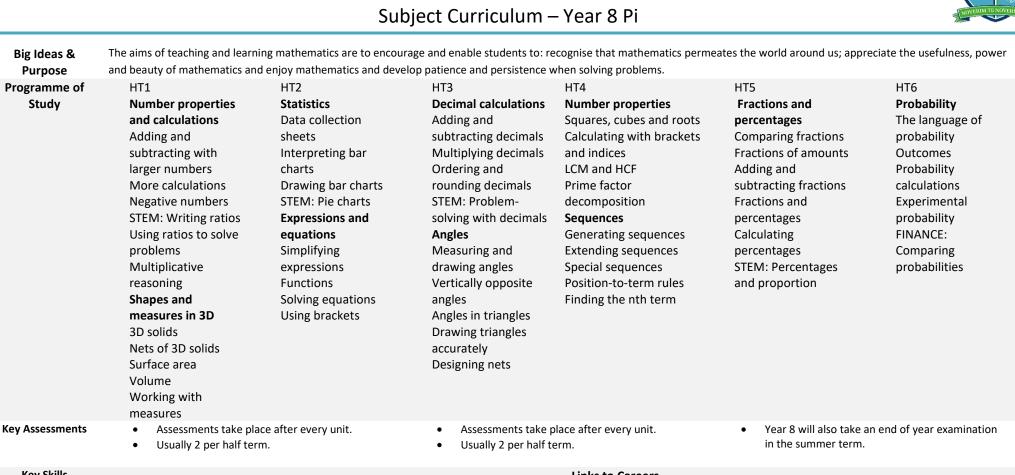
Links to Careers

 Mathematics teaches accuracy and precision in work. The analytical and problem-solving skills you learn are valuable in many different careers, for example Accountancy, Teaching, Business, Medicine, Architecture and Computer Studies.

Subject Curriculum – Year 8 Delta







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