Radnor House Sevenoaks - Curriculum Overview Maths year 9 (Higher GCSE)



Our students follow a three-year GCSE course which allows them to develop an understanding of mathematics and mathematical processes, develop the ability to reason and apply their skills and knowledge to problem solving.

The GCSE 9-1 specification and sample resources can be found at <u>http://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-</u>2015.coursematerials.html#filterQuery=category:Pearson-UK:Category%2FSpecification-and-sample-assessments

Other useful websites for Maths include:

Online resources: <u>Sparx - Radnor House Sevenoaks (sparxmaths.uk)</u> <u>http://www.emaths.co.uk</u> <u>http://www.counton.org/</u> <u>http://www.what2learn.com/home/examgames/maths/</u> <u>http://www.bbc.co.uk/education/levels/z4kw2hv</u>

Maths Careers:
http://www.mathscareers.org.uk/
http://www.ima.org.uk/quiz/
http://www.topuniversities.com/student-info/careers-advice/what-can-you-do-
mathematics-degree
http://www.futuremorph.org/14-16/next-steps/follow-your-favourite-
subject/careers-from-maths/
https://plus.maths.org/content/Career

Radnor House Sevenoaks - Curriculum Overview Maths year 9 (Higher GCSE)



Year 9 S hours per weekNumberInterpreting and representing dataRevision for end of year exams5 hours per week• Add, subtract, multiply and divide with decimals• Two-way tables• Averages from small data sets• Product rule for counting • Estimation• Averages form discrete and continuous data that is tabulated• Angles and trigonometryAny excess weeks allow for assessment revision weeks linked to PLC's.• Index notation • Standard form • Simplifying surds• Stem and leaf diagrams • Standard form • Correlation• Angles in parallel lines • CorrelationFractions, ratio and percentages • Algebraic notation • Algebraic notation • Expanding and factorising into single brackets• Fractions of an amount • Four operations with fractions• Representing data • Two-way tables • Averages from small data sets • Averages form discrete and • Convert between fractions, decimals and percentages• Angles and trigonometry • Angles in parallel lines • Angles in parallel lines • Interior and exterior angles in polygons • Pythagoras' Theorem in 2DFractions, ratio and percentages • Algebraic notation • Expanding and factorising into single brackets• Convert between fractions, decimals and percentages		Autumn Term 13 WEEKS	Spring Term 11 WEEKS	Summer Term 11 WEEKS
 Expanding and factorising into double brackets Setting up and solving equations Changing the subject of a formulae Iteration Algebraic proof Linear sequences Percentage calculations Reverse percentages Sharing in a given ratio Graphs Distance time and velocity time graphs Linear graphs Percentage calculations Reverse percentages Sharing in a given ratio Percentage calculations Reverse percentages Sharing in a given ratio Parallel and perpendicular lines Recognise linear, quadratic, and compariso 	5 hours per week Any excess weeks allow for assessment and regular revision weeks linked to	 Number Add, subtract, multiply and divide with decimals Product rule for counting Estimation Index laws Factors, multiples and primes Index notation Standard form Simplifying surds Algebra Algebra Algebraic notation Expanding and factorising into single brackets Expanding and factorising into double brackets Setting up and solving equations Changing the subject of a formulae Iteration Algebraic proof 	 Interpreting and representing data Two-way tables Averages from small data sets Averages form discrete and continuous data that is tabulated Stem and leaf diagrams Representing data Scatter graphs Correlation Fractions, ratio and percentages Convert between fractions, decimals and percentages Fractions of an amount Four operations with fractions Percentage calculations Reverse percentages 	 Revision for end of year exams Angles and trigonometry Angle facts Angle proof Angles in parallel lines Interior and exterior angles in polygons Pythagoras' Theorem in 2D Right angled trigonometry Angles of elevation Exact trigonometric values Graphs Distance time and velocity time graphs Linear graphs Equation of a line