Radnor House Sevenoaks - Curriculum Overview Maths year 9 (Foundation 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 http://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.coursematerials.html#filterQuery=category:Pearson-UK:Category%2FSpecification-and-sample-assessments

Other useful websites for Maths include:

Online resources:

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

Maths Careers:

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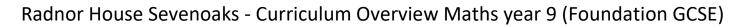http://www.ima.org.uk/quiz/
http://www.topuniversities.com/student-info/careers-advice/what-can-you-do-mathematics-degree
http://www.futuremorph.org/14-16/next-steps/follow-your-favourite-subject/careers-from-maths/
https://plus.maths.org/content/Career

September 2023

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	Autumn Term 13 WEEKS	Spring Term 11 WEEKS	Summer Term 11 WEEKS
Year 9 **5 hours per week** **Any excess weeks allow for assessment and regular revision weeks linked to PLC's.**	**Number** • Integers and place value • Decimals • Indices, powers and roots • Factors, multiples, and primes **Algebra** • Understanding notation • Expanding and factorising single brackets • Expressions • Worded formulae • Substitution into formulae **Graphs tables and charts** • Use suitable data collection techniques (data to be integer and decimal values); • Use correct notation for time, 12- and 24-hour clock and work out time taken for a journey from a timetable.	**Graphs tables and charts** • Construct tables for time-series data. • Frequency tables • Coordinates • Representing data • More representing data • Correlation **Fractions and Percentages** • Equivalent fractions • Ordering fractions • Four operations with fractions • Convert between fractions decimals and percentages • Order fractions decimals and percentages • Calculations with fractions decimals and percentages **Equations, inequalities and sequences** • Function machines • Forming equations • Solving equations • Substituting into formulae • Representing inequalities on a number line	**Revision for end of year exams** **Equations, inequalities and sequences** • Recognising sequences • Nth term of linear sequences. • Missing terms in linear and geometric sequences **Angles** • Recognise types of angle • Angles in shapes • Angles in parallel lines • Interior and exterior angles in polygons **Averages and range** • Collecting data • Types of data • Mean, median, mode and range

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