## Radnor House Sevenoaks - Curriculum Overview Maths year 7.

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Our Aims are to develop in students:

- A positive attitude towards Mathematics
- An appreciation of the place and use of Mathematics in society together with the ability to apply Mathematical knowledge and understanding to solve problems which may arise in their own lives
- An appreciation of pattern and relationship in Mathematics

We follow the Sparx programme in Key Stage 3 which is in line with the national curriculum for maths. Within each topic there is extension material to stretch pupils. Teaching resources can be found on students Onenote.

More information on the national curriculum for KS3 can be found at
https://www.gov.uk/government/uploads/system/uploads/attachment data/file/239058/SECONDARY national curriculum - Mathematics.pdf

Other useful websites for Maths:
Online resource
Maths Careers:
Sparx Maths
Maths Genie - Free Online GCSE and A Level Maths Revision https://corbettmaths.com/
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
https://plus.maths.org/content/Career

|  | Autumn Term | Spr | Summer Term |
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| 4.5 hours per week <br> Any excess weeks allow for assessment and regular revision weeks | 1. Number Sense | 1. Line and shape properties <br> - Line properties(M814) <br> - Shape properties(M276) <br> - Symmetry(M523 <br> 2.Perimeter <br> - Finding perimeters using grids(M920) <br> - Finding the perimeter of rectangles and simple shapes(M635) <br> - Finding the perimeter of compound shapes(M690) <br> 3. Area <br> - Finding areas using grids(M900) <br> - Finding the area of rectangles(M390) <br> - Finding the area of compound shapes(M269) <br> - Finding the area of triangles(M610) <br> - Finding the area of compound shapes containing triangles(M996) | 1.Angles <br> - Types of angles(M502) <br> - Estimating angles(M541) <br> - Measuring angles(M780) <br> - Drawing angles(M331) <br> - Angles on a line and about a point(M818) <br> - Vertically opposite angles(M163) <br> - Angles in triangles(M351) <br> 2.Handling data and statistical diagrams <br> - Calculating the range(M328) <br> - Calculating the median(M934) <br> - Finding the mode(M841) <br> - Calculating the mean(M940) <br> - Interpreting frequency tables and twoway tables(M899) <br> - Drawing and interpreting tally charts(M597) <br> - Drawing and interpreting pictograms(M644) <br> - Drawing bar charts(M460) <br> - Interpreting bar charts(M738) <br> - Collecting and recording data using tables(M945) <br> - Presenting data and making conclusions(M450) |
|  | - Using number lines(M763) <br> - Integer place value(M704) <br> - Decimal place value(M522) <br> - Ordering negative numbers(M527) <br> - Rounding integers(M111) <br> - Rounding decimals(M431) <br> 2. Adding and Subtracting <br> - Adding integers(M928) <br> - Adding decimals(M429) <br> - Subtracting integers(M347) <br> - Subtracting decimals(M152) <br> 3.Multiplying and Dividing <br> - Multiplying and dividing by 10, 100 and 1000(M113) <br> - Multiplying using place value(M911) <br> - Using a written method to multiply integers(M187) <br> - Using a written method to multiply decimals(M803) <br> - Dividing numbers into equal groups(M462) <br> - Using a written method to divide integers(M354) <br> - Dividing with a remainder(M873) <br> - Using a written method to divide by integers to get a decimal answer(M262) |  |  |
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| - Substituting into algebraic formulae(M208) <br> - Substituting into real-life formulae(M979) <br> 8. Solving Equations <br> - Solving equations with one step(M707) <br> - Solving equations of the form $a x+b=c$ (M634) <br> - Solving equations of the form $x / a+b=c(\mathrm{M} 647)$ <br> 9. Time <br> - Converting units of time(M515) <br> - Using clocks(M892) <br> - Calculating with time(M627) <br> - Using timetables(M963) <br> - Using calendars(M747) <br> 10. Measures <br> - Estimating and measuring length, mass and capacity(M828) <br> - Converting units of length, mass and capacity(M774) <br> - Using appropriate units(M487) | - Using the distributive law(M637) <br> - Expanding single brackets(M237) <br> - Expanding single brackets and simplifying expressions(M792) <br> - Factorising into one bracket(M100) | - Writing probabilities as fractions(M941) <br> - Writing probabilities as fractions, decimals and percentages(M938) <br> - Probabilities of mutually exclusive events(M755) <br> - Sample space diagrams(M718) |
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