## Radnor House Sevenoaks - Curriculum Overview Maths year 8.

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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 Maths 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
Sparx Maths Maths Careers:
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

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| 4. Sequences |
| :---: | :---: |
| $\bullet \quad$- Term-to-term rules for numerical <br> sequences(M381) |
| $\bullet$Term-to-term rules for sequences of <br> patterns(M241) |
| -Substituting into position-to-term <br> rules(M166) |
| $\bullet$Position-to-term rules for arithmetic <br> sequences(M991) |
| -Position-to-term rules for sequences <br> of patterns(M866) |

## 5.Venn Diagrams

- Venn diagrams(M829)
- Probabilities from Venn diagrams(M419)
- Finding the HCF and LCM using prime factor decomposition(M365)


## 6. 3D shapes area and Volume

- Properties of 3D shapes(M767)
- Nets of 3D shapes(M518)
- Finding the surface area from a net(M884)
- Finding the surface area of cubes and cuboids(M534)
- Finding the surface area of prisms(M661)
- Finding the volume of cubes and cuboids(M765)
- Finding the volume of prisms(M722)
- Converting units of volume(M465)


## 5. Inequalities

- Reading and drawing linear inequalities on number lines(M384)
- Solving single inequalities(M118)


## 6. Algebra

- Expanding double brackets(M960)
- Calculating with fractions(M645)
- Simplifying algebraic fractions by factorising(M754)
- Adding and subtracting algebraic
- 
- Writing ratios in the form 1:n(M543)
- Writing ratios in the form $1: n(\mathrm{M} 543)$ and percentages(M267)
- Using equivalent ratios to find unknown amounts(M801)
- Sharing amounts in a given ratio(M525)
- Drawing and interpreting scale diagrams(M112)


## 5. Ratio

- Writing and simplifying ratios(M885)
- 

fractions(M336)
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Some of this term will be devoted to revising and reviewing content in preparation for summer exams.

