Rugby Free Secondary School

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# Rugby Free Secondary School Curriculum Sequence Overview 2024-25

## Key Stage 2 Key Links:

1. Assess students to know where their strengths and weaknesses are.

2. Be consistent with methodologies and language used from KS2

3. Topics covered in KS2 revisited in KS3

## Year 7 Link to Key Stage 2:

1. Strengthen understanding of topics from KS2 into KS3

2. Go into greater depth by interleaving with secondary content (e.g. algebra topics)

3. Explore alternative methods to same problem (building on reasoning and problem-solving topics)

## Year 8 Link to Year 7:

1. Building upon topics learnt in Year 7 related to number, algebra, geometry and data handling.

2. Further enhancing algebraic fluency with the introduction of other algebraic topics

3. Relate to real life context and look to make connections and links with other mathematical topics

## Year 9 Link to Year 8:

1. Building upon topics learnt in Year 7 and 8 Related to number, algebra, geometry and Data handling

2. Recall it tasks regularly assess topics from Year 8

3. Relate to real life context and look to make connections and links with mathematical topics

## Year 10 Link to Year 9:

1. Year 10 would have started the KS4 SOL after the Easter holiday of year 9 (the KS3 curriculum covers all content to foundation level)

2. The Fundamentals for Number, Algebra, Ratio and Proportion and Data were taught in year 9 and will now be built on in year 10. (Proportion, Sequences, Calculations with Mixed Numbers)

3. Students will use their number and Algebra skills learnt and to apply them to geometrical contexts (Sequences, Straight Line Graphs)

## Year 11 Link to Year 10:

1. Algebra content increases in difficulty, and builds on all skills developed in Year 10 (Solving Quadratics and Quadratic Graphs)

2. Geometry elements broaden & deepen ideas developed in Year 10 (Circles, Cylinders, Cones and Spheres Vectors, Similarity and congruence in 2D)

3. Time will be given to revise and cover topics from the entire Scheme of learning.

## Year 12 Link to Year 11:

1. Pure content uses GCSE algebra skills (quadratics, simultaneous equations & laws of indices) as a springboard to develop their analytical approaches within Maths

2. Mechanics content uses algebra & geometric skills developed in Year 11, with a very clear focus on right angled trigonometry.

3. Statistics elements build upon ideas developed through KS4 including representation of data & probability.

## Year 13 Link to Year 12:

1. Pure content builds on all skills developed in Year 12 with a very clear focus on Algebraic Manipulation, Calculus & trigonometry.

2. Statistics elements broaden & deepen ideas developed in Year 11 & 12 focussed on probability & probability distributions.

3. Mechanics elements broaden & deepen concepts developed in Year 12, with a focus on the modelling of force and motion.