YEAR 11 FOUNDATION GCSE

The vast majority of this course has been covered and this year is to be revisiting topics (particularly newer content) and looking in greater detail at the problem solving questions.

Assessments for Year 11 – Grades to be entered on GO
Autumn Term 1 – (September)
Students complete Paper 1 & 2
Autumn Term 2 Mocks – (Nov/Dec)

1. Students complete all three papers in Mock exam conditions

2. Enter paper 1 & 2 & 3 and overall full grade.

Spring Term 2 – (March)
Students complete paper 1, 2 & 3
You will not have to teach topics already taught in year 10. Please pass this information to a teacher taking over your class.

Number		Primes, factors,multiples,squares,cubes HCF LCM Negative number operations **Standard Form** **Fibonacci, quadratic and geometric sequences** **Use the inequality symbol to express error intervals due to rounding.**		
Angles		Types of angles and triangles. Angles on a straight line/around a point/between parallel lines (corresponding/alternate/co-interior) **Derive sum of angles in a triangle.**		
Congruence		**Use congruence criteria for triangles. (SSS SAS ASR RHS)**		
Similar Shapes		**Find corresponding lengths in similar shapes**		
Algebra		Collecting like terms Laws of indices/algebraic indices Expansion of brackets Factorisation linear BIDMAS		
Algebra		**Expand double brackets** **Factorise quadratics** **Difference of two squares**		
		ASSESSMENT PAST PAPER		
Decimals and Rounding		Round to a given number of decimal places and significant figures Estimation of calculations by rounding to 1 SF first before calculation. Apply to 'estimate' questions **Vector Diagrams**		

Solving Equations And Inequalities		**Know the difference be between an equation and an identity.** Go over the following types x/20 20/x= 5 3y-7 = 23 5y-7=7y+31 3(x+5)=2(x+2) **Solve quadratic equations by factorising.** Solving Inequalities	
Polygons		Calculating angles in polygons (regular and irregular) Exterior angles **Use standard convention for labelling sides and angles of polygons.**	
Proportion		**Use direct and inverse proportion graphically and algebraically**	
Bearings		To calculate a bearing To construct a bearing and or scale drawing.	
Fractions		Four rules and applications.	
Simultaneous Equations		**Derive simultaneous equations from real life situations** **Solve linear simultaneous equations algebraically and graphically.**	
Using a Calculator		Writing down full display answers. Rounding to given decimal places and significant figures	
Measure		Converting units Using distance and timetables	
		Constructing pie charts. Using given pie charts. Constructing frequency polygons.	
		MOCKS	
Venn Diagrams		Venn Drawing and notation	
Perimeter and Area.		Calculate the perimeter and area of given shapes.	

Straight Line Graphs.		Drawing straight line graphs. Calculating gradients and intercepts. Y=2x-3 x+y =7 x=3 **Find equation of line through two points or one point when given a gradient.** **Use y= mx +c to identify parallel lines.**		
Statistical Measures		Mean, median, mode Mean of a frequency distribution. Mean of grouped data. **Consider outliers when calculating the range of a distribution.**		
Area and Circumference of circles		All applications including semi circles and quarter circles. **Calculate arc length and areas of sectors.** **Calculate exactly with multiples of pie.**		
Constructions and Loci		Plans and elevations. Construct a triangle when given three sides, two sides and an included angle. Bisecting lines, bisecting angles.		
Percentages		All applications **Compound interest** **Growth and decay problems.** **Percentage change** **Reverse percentages** **Sampling Infer properties from a sample while knowing the limitations of sampling.**		

Volumes of Prisms. **Surface Area**		Review faces, edges and vertices..		
		ASSESSMENT Past Paper		
Real Life Graphs				
Quadratic Graphs		**Sketch quadratic, cubic and reciprocal functions**		
Transformations		Translation, Rotations, Reflections, Enlargements, **(include fractional scale factors)**		
Ratio and Proportion		Exchange rate problems. Map scale problems. **Write a ratio as a linear function.**		
Scatter Diagrams		Identify and discussing correlations. **Know that correlation does not imply causation.**		
Probability and Relative Frequency		Review basic **Use Tree diagrams to solve probability questions**		
		ASSESSMENT – SPRING 2		
Pythagoras		All applications including calculating the distance between two coordinates. compound measures.		
Formulae		Using word formulae. Substitution Rearranging. **Perform calculations with density, mass and volume.** **Calculate**		
Trigonometry		**Basic trig for right angled triangles.** **Know sin/cos/tan for angles 30/60/90**		
		Revision Programme and Past Papers.		