

KAA Curriculum Overview		Maths	SoW 22/23- Year 7-11	Year 7	EOY Exam	Sequencing and Progression		
Rationale					<i>What content and skills will be assessed in the EOY exam?</i>	<i>How does this year build on what they've learnt last year?</i>	<i>How will it benefit them as they move forward next year?</i>	
By the end of year 7, we want students to have a deep conceptual understanding of mathematical fundamentals which they will use further down the school. These fundamentals include place value and numerical reasoning (including inverses, zero pairs, negative numbers and general number sense), proportional reasoning, multiplicative reasoning, thinking geometrically and number sense. We also want students to develop a better understanding of mathematical terminology and be able to express what they know speaking like experts, using precise academic language. The aim at year 7 is not to cover lots of content but to go into greater depth in securing these fundamentals. For example, students will only learn how to find the area of basic shapes like rectangles or triangles in SUM1 of year 7, but should be able to tackle more challenging questions where they have to work backwards or make links to algebra. Once this fundamental understanding of area has been established, they will be better placed to take this further (areas of trapezia and parallelograms) later on in the curriculum.					Procedural fluency around and conceptual understanding of the content covered over the course of the year. Problem-solving questions which encourage pupils to make links between topics.	Teachers should be aware that some high-attaining students will already be confident with some of the content covered at KS2 and appropriate extension work should be planned.	Topics mastered in year 7 will be consistently interleaved into the SoW later down the school so aid student retention and promote pupil progress.	
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Link to MTP Overview	Year 7 AUT1 Tracker	Year 7 AUT2 Tracker	Year 7 SPR1 Tracker	Year 7 SPR2 Tracker	Year 7 SUM1 Tracker	Year 7 SUM2 Tracker		
Topic studied	<ul style="list-style-type: none"> Place value including adding and subtracting (2.5 weeks) Number properties (2) Negative numbers (1.5) 	<ul style="list-style-type: none"> Seeing the whole (3) Proportional reasoning (2) Four operations (2) 	<ul style="list-style-type: none"> Algebraic notation (1) Simplifying expressions (2) Substitution (2) 	<ul style="list-style-type: none"> Equality and equivalence (3) Sequences (2) 	<ul style="list-style-type: none"> Properties of shapes (1) Area and perimeter (2) Angles (2) 	<ul style="list-style-type: none"> Data handling (2) Averages (2) 		
Adjustments following last assessments / evaluation.	Numeracy ninjas starters have worked well in the past for year 7 in AUT1 and AUT2. Consult Whiterosemaths resources.	Consult Whiterosemaths resources.	Algebra has been moved to SPR1 for 2022-3 so we can focus on its prerequisites in AUT1 and AUT2. Dealing with negative numbers is often the biggest obstacle here.	Lessons do not need to go as far as nth term here but should focus on developing pattern spotting skills and link back to algebra in other ways.	Multi-step problems and problems involving algebra should be built into the majority of the lessons here - students have struggled on these questions on assessments previously.	Students only need to interpret and construct frequency tables here instead of calculating averages from them.		
Key knowledge and skills students need to have gained by the end of the unit	<ul style="list-style-type: none"> Place value (adding and s... Number properties Negative numbers 	<ul style="list-style-type: none"> Seeing the whole Proportional reasoning Multiplying and dividing 	<ul style="list-style-type: none"> Algebraic notation Simplifying expressions ... Substitution 	<ul style="list-style-type: none"> Equality and Equivalence Sequences 	<ul style="list-style-type: none"> Properties of shapes Area and Perimeter Angles 	<ul style="list-style-type: none"> Data handling Averages 		
How is understanding assessed at the end of the unit?	Formal assessment in the second last week of AUT1		Formal assessment in the second last week of SPR1			Formal end-of-year assessment		