

## MAGHULL HIGH SCHOOL – CURRICULUM MAP Year 10 Half Term 2



Unit:	Week 1 -2	Week 3-4	Week 5-6	
<b>LESSON TOPIC QUESTION(S)</b>	<b>Objective:</b>		<b>Objective:</b>	
	Foundation	Higher	Foundation	Higher
	Percentage increase and decrease	Repeated percentage change	Equivalent ratios	Combine a set of ratios
	Repeated percentage change (E)	Express one number as a fraction or a percentage of another	Share in a ratio (total given)	Share in a ratio (algebraically)
	Express one number as a fraction or a percentage of another	Express a change as a percentage	Share in a ratio (part or difference given)	Solve problems with ratio and algebra
	Express a change as a percentage	Find the original value after a percentage change	Link ratios and fractions	Ratios and scales
	Find the original value after a percentage change	Simple interest	Combine a set of ratios (E)	Add and subtract fractions
	Simple interest	Compound interest	Share in a ratio (algebraically) (E)	Multiply and divide fractions
	Compound interest (E)	Share in a ratio (given total, one part or difference)	Ratios and scales	Solve problems with fractions
	Choose appropriate methods to solve percentage problems	Link ratios and fractions	Fraction of an amount	Add and subtract algebraic fractions
	Formative Assessment	Formative Assessment	Formative Assessment	Formative Assessment
	Therapy Lesson	Therapy Lesson	Therapy Lesson	Therapy Lesson

<b>Knowledge &amp; Skills development</b>	Develop fluency in applying percentage change and interest calculations • Strengthen proportional reasoning through real-world ratio problems • Consolidate understanding of fraction operations including algebraic manipulation • Enhance confidence in multi-step problem solving and equation solving with fractions • Use and rearrange formulae with fractional and percentage components		
<b>Assessment / Feedback Opportunities</b>	Regular low-stakes quizzes and starters to identify misconceptions early • Formative assessments with directed therapy lessons to close knowledge gaps • Class discussions and collaborative problem-solving for instant feedback • Use of modelled answers and peer/self-assessment using mark schemes		
<b>Key Vocabulary</b>	<i>Percentage increase/decrease, Original value, Interest (simple/compound), Ratio, Scale, Part-to-whole, Fraction, Algebraic fraction, Simplify, Solve, Equation, Mixed number</i>		
<b>Literacy/Reading opportunities</b>	Interpretation of multi-step worded problems in financial and ratio contexts • Use of structured sentence stems to articulate problem-solving methods • Reading and analysing worked examples to build comprehension of complex tasks • Vocabulary reinforcement through definition matching and literacy mats		
<b>Cross Curricular Themes</b>	Business Studies – Financial calculations and interest applications • Science – Ratios and formulae in equations and experiments • Geography – Scale drawings and proportional representation • Design & Technology – Measurements, scaling, and materials costing • Computing – Algorithmic thinking and data representation with fractions		
<b>Personal Development (Including British Values, RSE, Citizenship)</b>	Promoting perseverance and a growth mindset through mathematical challenge • Encouraging respectful group collaboration and clear mathematical communication • Exploring real-life financial literacy and informed decision-making • Reinforcing fairness and rule-following through consistent application of methods Financial calculations and interest applications		
<b>Career Opportunities</b>	laying foundations for careers in banking, engineering, architecture, business, and teaching • Applying percentages, ratios, and fractions in sectors like healthcare, construction, and finance • Highlighting the role of logical thinking and numerical reasoning in professional success		