



I Can Statement - Year 8 Maths

Topic Overview - Multiplicative Change	Pre-taught Vocabulary	
In this unit, we will formalise our understanding of ratio and scaling by exploring the core principles of direct and inverse proportion. We will learn how to identify whether a problem requires additive, multiplicative, or proportional reasoning to ensure we apply the correct mathematical strategies. By studying conversion graphs, we will explore how to represent proportional relationships visually and use these skills to solve real-world context problems, such as converting foreign currencies. Additionally, we will apply scale factors to maps and scale drawings, allowing us to accurately calculate real-life distances and find missing lengths in pairs of mathematically similar shapes.	Multiplicative Change	Direct Proportion
	Inverse Proportion	Scale Diagram
	Scale Factor	Similar Shapes
	Currency Conversion	Conversion Graph

RAG Rating:		Start	End	Teacher
1.	I can identify whether a numerical problem requires additive, multiplicative, or proportional reasoning to solve.			
2.	I can solve word problems and real-world scenarios involving direct and inverse proportion.			
3.	I can convert fluently between different foreign currencies using given rates and calculations.			
4.	I can plot, read, and explore conversion graphs to change values smoothly between two units of measure.			
5.	I can explore the geometric relationships between similar shapes to find missing dimensions.			
6.	I can understand and explain scale factors as multiplicative representations of an enlargement or reduction.			
7.	I can accurately draw and interpret scale diagrams using specified linear scales.			
8.	I can interpret maps and calculate real-life distances by applying scale factors and ratios.			
9.	I can move confidently between numerical, algebraic, graphical, and diagrammatic representations of a proportion problem.			
10.	Higher: I can construct, analyse, and explore direct proportion graphs to show relationships visually.			