



I Can Statement - Year 8 Maths

Topic Overview - Multiplying and Dividing Fractions	Pre-taught Vocabulary	
In this unit, we will deepen our understanding of fraction arithmetic by exploring the core principles that underpin the algorithms used for multiplication and division. Rather than just memorising rules, we will use multiple representations to visualize these calculations clearly. We will master how to multiply proper fractions by integers and other fractions, as well as how to divide both integers and fractions by unit fractions. Central to our work on division will be the definition and mathematical use of the reciprocal. For the higher strand, we will extend these operations to more complex algebraic fractions, improper fractions, and mixed numbers.	Product	Quotient
	Integer	Proper Fraction
	Mixed Number	Improper Fraction
	Reciprocal	Algebraic Fraction

RAG Rating:		Start	End	Teacher
1.	I can use visual diagrams and multiple representations to model and explain the multiplication of fractions.			
2.	I can multiply a proper fraction by a positive or negative integer.			
3.	I can calculate the product of a pair of unit fractions and general proper fractions.			
4.	I can divide a whole integer by a proper or unit fraction.			
5.	I can divide a proper fraction by a unit fraction.			
6.	I can define, understand, and use the reciprocal to solve complex division problems.			
7.	I can divide any pair of proper fractions using formal mathematical methods.			
8.	I can select and use appropriate calculation strategies to solve multi-step problems involving fractions and decimals			
9.	Higher: I can multiply and divide mixed numbers and improper fractions by converting them first.			
10.	Higher: I can multiply and divide complex algebraic fractions using formal simplification methods.			