Castlefield School- Maths					
Constitution Topic: Ratio and proportion	Year: Six Theme: Ratio and Proportion				
Making connections		Key Vocabulary			
Ratio and proportion link to fractions For every 1 rugby ball there are 2 footballs - The ratio is 1:2 - 1/3 of the balls are rugby balls	Part	Whole Le	ngth	Width	Perimeter
	Ratio	Tells us how much there is of one thing compare to another.			
	Proportion	Comparing a part to the whole e.g. 1 out of 6 balls are orange			
	Scale	To make a shape bigger (scale up) or smaller (scale down)			
 Ratio and proportion link to multiples. Ratio and proportion link to multiples. For every 3 rugby balls there are 6 footballs. This can be simplified, both are multiples of 3 3:6 = 1:2 	Enlargement	Make a shape bigger			
	Scale Factor	By how much has a shape has been enlarged			
	Key concepts and questions				
	How is ratio calculated? For every one circle there are two triangles.				
Representations	For every 3 apples there are 2 bananas. The ratio is 3:2				
A has been enlarged by a scale factor of 2. B is now two times as big as shape A. A has been enlarged by a scale factor of three. B is now 3 times as big as shape A. B is now 3 times as big as shape A. B is now 3 times as big as shape A. B is now 3 times as big as shape A.	<u>Can ratio be represented as a fraction?</u> Yes, it can be. 1 banana + 4 apples= 5 pieces of fruit				pieces of fruit
	For example, for every 1 banana there are		ere are B	A A	A A
	The ratio is 1:4 To represent he bananas as a j pieces of fruit denominator. bananas, this $\frac{1}{5}$ of the fruit is	• ow many pieces of fro fraction, find how mo altogether, this is the Then find how many is your numerator. s bananas.	Hov The mu iny Thi inv E.g. 200 100 200 The	How can scale factor be found? The scale factor is what a part is multiplied by to make the whole. This is like finding a missing value, the inverse can be used to help. E.g. Ben is 100cm tall, his shadow is 200cm long. $100 \times ? = 200$ $200 \div 100 = 2$ The scale factor is 2.	