## **Edward Peake Church of England Middle School**

**Topic:** Ratio

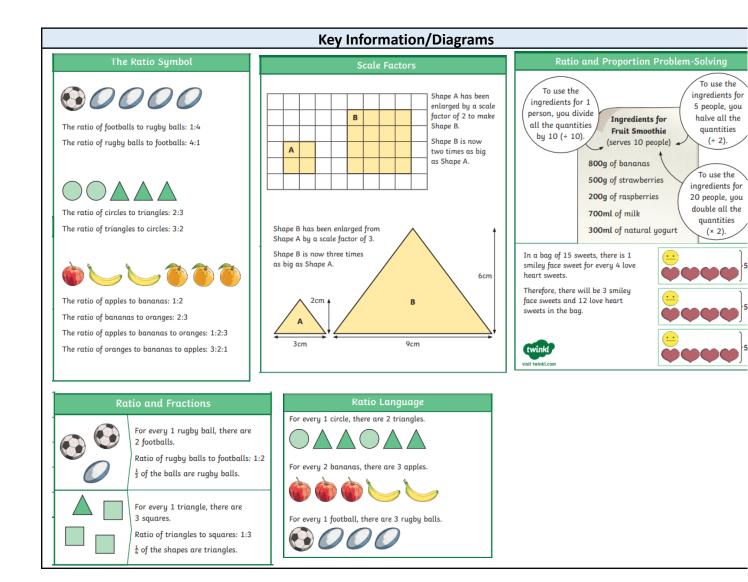
Year: 6

NC Strand: Number

What should I already know?		
<ul> <li>How to solve problems involving multiplication and division, including scaling by simple fractions and p involving simple rates.</li> </ul>	roblems	

## What will I know by the end of the unit?

- How to use ratio language
- How to compare ratio and fractions
- How to use the ratio symbol
- How to solve problems involving ratio
- How to use scale factors
- How to calculate using scale factors
- How to solve ratio and proportion problems



四

Edward Peake Church of England Middle School			<b>1</b>
Topic: Ratio	Topic: Ratio Year: 6 NC Strand: Number		

Vocabulary				
Ratio	Part	Enlargement	Width	
Proportion	Whole	Similar Shape	Perimeter	
For every there	Scale Factor	Length		
are				

## Investigate/Homework tasks

- Homework will be set by your teacher using google classroom
- You should complete at least 30 minutes of maths tasks using the website and log in provided by your teacher. Please attend help sessions if you do not have access to the internet at home
- Additional work you could complete:
  - Find out more about the meaning of the vocabulary list using http://www.amathsdictionaryforkids.com/
- To challenge yourself: Answer the key questions to deepen your knowledge

Key Questions				
How would your sentences change if there were 2 more blue flowers?	What does enlargement mean?			
How would your sentences change if there were 10 more pink	What does scale factor mean?			
flowers?	Why do we have to double/triple all the sides of each shape?			
Can you write a "For every" sentence for the number of boys and girls in your class?	Have the angles changed size?			
How many counters are there altogether?	What does similar mean?			
	What do you notice about the length/width of each shape?			
How does this help you work out the fraction?	How would drawing the rectangles help you?			
What does the denominator of the fraction tell you?	How much larger/smaller is shape A compared to shape B?			
How can a bar model help you to show the mints and chocolates?	What does a scale factor of 2 mean? Can you have a scale factor of 2.5?			
What does the : symbol mean in the context of ratio?	How does this problem relate to ratio?			
Why is the order of the numbers important when we write ratios?	Can we represent this ratio using a bar model?			
	What does each part represent? What is the whole?			
How do we write a ratio that compares three quantities?	What is the same about the ratios?			
How do we say the ratio "3 : 7"?	What is different about them?			

Edward Peake Church of England Middle School			8
Topic: Ratio	Year: 6	NC Strand: Number	
How can we represent this ratio using a bar model?			
What does each part represent? What will each part be worth?			
How many parts are there altogether? What is each part worth?			
If we know what one part is worth, can we calculate the other parts?			