## Edward Peake Church of England Middle School

**Topic: Measures of location** 

Year: 8

NC Strand: Statistics

What should I already know?			
<ul> <li>How to solve problems using the mean, median and mode</li> </ul>			
<ul> <li>How to solve problems using the range</li> </ul>			

How to solve problems using the range

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

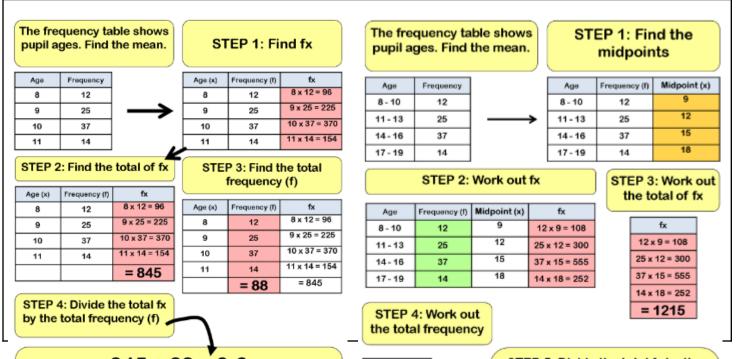
- How to understand and use the mean, median and mode
- How to choose the most appropriate average
- How to find the mean from an ungrouped frequency table
- How to find the mean from a grouped frequency table
- How to identify outliers
- How to compare distributions using averages and the range

	Vocabulary		
Average	Modal value	Subtotal	Outlier
Mean	Total	Estimate	Range
Median	Frequency	Midpoint	Consistent
Mode	Represent		

## 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 <u>http://www.amathsdictionaryforkids.com/</u>
- To challenge yourself: Answer the key questions to deepen your knowledge

## **Key Information/Diagrams**



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Key Questions				
How do we find the midpoint of a class interval?				
Why is our value an estimate of the mean rather than the exact mean?				
Would the estimate be more or less accurate if you had more/fewer classes?				
How do you decide which values are outliers?				
Are any of the values impossible/unreasonable? Should				
these values be included in any calculations we might do?				
Which averages are most affected by outliers?				
Will outliers always affect the range? Why or why not?				
Is it better to have a low or high range?				
Why does a high range mean the (e.g.) scores are less				
consistent?				
Which averages are affected by outliers?				
Which average is most useful for comparing these groups of data?				