


Subject	Year	Month	
Mathematics	10	December	
Topic:			
Pie Charts			2 lessons
Content (Intent)			
Prior Learning Year 10 Charts and graphs November		Future Learning Year 10 Scatter graphs January	
Objectives <ul style="list-style-type: none"> • Draw circles and arcs to a given radius and measure and draw angles, to the nearest degree; • Know there are 360 degrees in a full turn, 180 degrees in a half turn, and 90 degrees in a quarter turn; • Construct pie charts for categorical data and discrete/continuous numerical data; • Interpret simple pie charts using simple fractions and percentages; $\frac{1}{2}$, $\frac{1}{4}$ and multiples of 10% sections and find the mode and the total frequency from a pie chart; • Understand that the frequency represented by corresponding sectors in two pie charts is dependent upon the total populations represented by each of the pie charts. 			
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)	
Relate $\frac{1}{4}$, $\frac{1}{2}$, etc to percentages. Practise dividing by 20, 30, 40, 60, etc. Compare pie charts to identify similarities and differences. Angles when drawing pie charts should be accurate to 2°.		End of half term Dec End of Year Year 10 exams in April	
		How can parents help at home?	
		MathsWatch clips Qualification KS3: G2, G10abc, S9 Qualification KS4: 46ab, 128a, 116, 167	
Further reading/discussion			
Reading / Enrichment http://passyworldofmathematics.com/real-world-charts-and-graphs/	Literacy	Numeracy Links	Careers Links Research analyst (medical, educational, market, management, etc.) Economist Geotechnology