Subject	Year	Month	Ś
Mathematics	11	September	
Торіс:			
Probability 2 4 lessons			
Content (Intent)			
Prior Learning Year 9 Probability April Year 11 Probability 1 September Objectives	Future Learning		
Find the probability of an event happening using relative trequency;			
<ul> <li>Estimate the number of times an event will occur, given the probability and the number of trials - for both experimental and theoretical probabilities;</li> <li>List all outcomes for combined events systematically;</li> <li>Use and draw sample space diagrams;</li> </ul>			
<ul> <li>Work out probabilities from Venn diagrams to represent real-life situations and also 'abstract' sets of numbers/values;</li> <li>Use union and intersection notation;</li> <li>Compare experimental data and theoretical probabilities;</li> </ul>			
<ul> <li>Compare relative frequencies from samples of different sizes:</li> </ul>			
<ul> <li>Find the probability of successive events, such as several throws of a single dice;</li> </ul>			
<ul> <li>Use tree diagrams to calculate the probability of two independent events:</li> </ul>			
<ul> <li>Use tree diagrams to calculate the probability of two dependent events.</li> </ul>			
<ul> <li>Draw probability frequency diagrams</li> </ul>			
Pedagogical notes (implementation)	How will understanding be assessed & recorded (Impact)		
Probability without replacement is best illustrated visually and by initially working out probability 'with'	End of half term no End of Year Year 11 mocks in November		
replacement. Encourses atudents to work losses the baseline to be a transition of the second			
working out the probability of each successive event. The probability of the combinations of outcomes should	MathsWatch clips		
Emphasise that were an experiment repeated it will usually lead to different outcomes, and that increasing sample size generally leads to better estimates of	Qualification KS3: P5, P6, P7 Qualification KS4: 57, 58, 125, 126 151, 175, 185, 204		
probability and population characteristics. Probabilities written in fraction form should be cancelled to their simplest form.		,-,	0, 200, 20
Further reading/discussion			
Reading / Enrichment <u>http://passyworldofmathematics.com/real-world-venn-</u> <u>diagrams/</u>	Literacy	Numeracy Links	<b>Careers Links</b> Statistician Bookmaker Financial Analyst Underwriter Actuary