

<u>Topics</u>			;	What do I need to be able to do?						STATS				
Produc	t rule		ļ	Be able to apply the product										
Randor	nness/	fairne	ss	rule to find the number of						Summer Term				
Probab	oility sc	ale	- 2	outcomes						Summer renn				
Probab	s	Use keywords to describe						Probability 2						
• Relativ		outcomes												
		Calculate simple probabilities						De	efinition	Character	istics			
Career Links		Predict the number of     Outcomes						:						
Being able to		Draw and interpret relative												
work with dat		frequency tables												
skill to have a								E	amples	Non-Exan	nples			
of links with a	numb	ber of		Chance										
careers such a		Even						:						
				Impossib	le	Chance		Ce	rtain		J			
Statisti	cian			Unlikely										
Busines	<ul><li>Business Analyst</li><li>Biostatistician</li></ul>					Probability						Main	1	
Biostat						,					Starter	Lacagno	1	
• Healtho	care			0 	0.25	0.5	0.75		-	Ē	Fishcake	Lasagne Reef		
				0%	25% 1	50% 1	75% 3	10	00%		Melon	Salmon		
				0	$\frac{1}{4}$	$\frac{1}{2}$	$\overline{4}$		1					
Key Vocabular		The chance of something happening						chosen. F, L M, L F, B M, B						
Impossible		Cannot happen							F, S Note: You can write	M, S the initials of each	1			
Certain		Will definitely happen						option in a test. You do not need to write						
Even chance		Two outcomes have the same chance of happening						Product rule for counting						
Expectation		The amount of times you expect an						The number of total outcomes is the						
Relative freque		How often something happens divided						number of choices in set 1 multiplied						
		by all the outcomes						by the number of choices in set 2						
	Colour	red	blue	white	black						) What is the probabilit e <b>yellow</b> .	ty that a bead chose	n will	
	FIOD	~	0.2	0.5	~								_ 1	
A spinner is spun, it has four colours on it. The relative frequencies of each colour are recorded. The relative frequency of red and black are the same. a) What is the relative frequency of red? 1 - (0.2 + 0.3) = 0.5 $x = \frac{0.5}{2} = 0.25$									$\frac{\text{Distribution}}{\text{Distribution}} = \frac{\text{Number of favourable outcomes}}{\text{Total number of outcomes}}$ $P(Yellow) = \frac{2}{8} = \frac{1}{4}$ $0  \frac{1}{8}  \frac{2}{8}  \frac{3}{8}  \frac{4}{8}  \frac{5}{8}  \frac{5}{8}  \frac{7}{8}  \frac{1}{1}$					
b) If +b	200	4		there -		المتعامة المع	m.u.h:4-2		2) How	many ye	llow beads would you	expect if you pulled	a	
by in the spinner is sp	b) If the spinner is spun 300 times, now many times do you expect it to land on white? $0.3 \times 300 = 90$										ut and replaced it 40 times?			
											$\frac{1}{4} \times 40 = \frac{1}{4}of40 =$	: 10		
		Ye	ear	8 — K	(nov	vledge	Orga	ni	ser			<b>W</b>	°¥° H S	

