## FURTHER PROBABILITY

Keywords:	Event / Independent / Dependent / Conditional					
Definition / Description:	<b>Event:</b> A particular result or set of results amongst the possibilities	Indeper have no other's r	ndent: events that impact on each results.	<b>Dependent:</b> events that have an impact on each other's results.		ve <b>Conditional:</b> the probability of an event (A), given that another (B) has already occurred
Knowledge points:	Tree diagrams Independent events: The outcome of the 1 <sup>st</sup> event does not effect the probability of the 2 <sup>nd</sup> event		Tree Diagrams Depen probability of the 2nd e on the outcome of the	dent events: Th event is depend 1st event	ent Second first	onal Probability: The probability of I event given the outcome of the
Knowledge point examples:	The probability of it raining on M and Tuesday is shown in the treadiagram. Find the probability it rains on b days: P(RR) = 0.1 x 0.4 = 0.04 Find the probability it rains on o P(NRR) + P(RNR) = 0.06 + 0.30 0.42	Aonday ee oth ne day: 6 = 1 = 0.04 4, NR) = 3, NR) = 3, R, R) = 3, R, R) =	There are 20 boys and Two pupils are chosen What is the probability are chosen? P(GB) + P(BG) = $\left(\frac{10}{30} > \frac{40}{87}\right)$ First choice Se 19 20/30 B 1 10/30 G 2 9	that a girl and b $\left(\frac{19}{29}\right) + \left(\frac{20}{30} \times \frac{10}{29}\right)$ cond choice B D/29 B D/29 B Cond choice B Cond choice Cond ch	ass. What is given the boy $\frac{9}{13}$ What is <i>given</i> the Spanis $=\frac{17}{21}$	a the probability of choosing a boy hey travel by car? Walk Car Total   Boys 16 9 25   Girls 18 4 22   Total 34 13 47   a the probability that a student, hey study French, studies h?   Image: the probability that a student of the probability french and the probability f

Linked Basic Probability Knowledge Fractions Ratio

Maps: