BRACKEN RIDGE STATE HIGH SCHOOL Year 10 Extension Mathematics

Overview

TERM ALLOCATION AND LENGTH	UNIT	SUB TOPICS	ASSESSMENT
TERM 1	PYTHAGORAS	Calculating hypotenuse and	• Test
9 weeks	AND	short sides Calculating unknown sides	
3 WEEKS	TRIGONOMETRY	using trig	
		Calculating unknown angles	
		using trig Angles of elevation and	
		depression	
		BearingsCalculating unknown sides	
		and angles using the sine	
		and cosine rules	
	STATISTICS AND	 Two and three step chance experiments 	Assignment
	PROBABILITY	 Experiments with and 	
		without replacementAssigning and determining	
	1-	probabilities	
TERM 2	LINEAR AND	Gradient and y-intercept Gradient line and the second lin	
11 WEEKS	NON-LINEAR	Straight line equationSimultaneous equations	
	RELATIONSHIPS		
	REAL NUMBERS	• Indices	
ACT	PATTERNS AND	Expanding and factorising Cimplifying algebraic	• Test
	ALGEBRA	 Simplifying algebraic fractions 	
TERM 3	DATA	Interpreting tables and	 Assignment
10 weeks		graphs • 5 number summary	
10 Weeks		Boxplots/parallel boxplots	
		• IQR	
1//	LINITCOS	ScatterplotsSurface area and volume of	• Test
Y/	UNITS OF MEASUREMENT	composite shapes	
	AND GEOMETRIC	Angle rules and proofs	PLISH Y
	REASONING	10 ACCON	
TERM 4	MONEY AND	Simple interest	• Test
8 weeks	FINANCIAL	Compound interestDepreciation, appreciation	
O WEEKS	MATHEMATICS	and inflation	
	PIATTEMATICS		

	LINEAR AND	 Connection between algebraic Test
	NON-LINEAR	and graphical representation of
	RELATIONS	relations
		Algebraic fractions
		Quadratics
	CH	develop the logarithms
	HICH	theorems
		apply proof to logarithm
		theorems
		convert between powers and
		logs
		state the log theorems
	/ A	rearrange equations
		make a generalisation to
		develop a theorem
		develop proofs of the
		logarithms theorems
		Simplify expressions involving loggrithms
		logarithms

