Strands of Mathematics Curriculum Relating to Each Activity

<u>Level One</u>

Activity Name	Number	Algebra	Geometry	Measurement	Statistics
Accuracy and		Equation for		Limits of	Types of error
Precision		patterns		accuracy	and bias
Culs de Sacs				Areas	
Geometry			Interior		
			Angles,		
			Circle		
Coomotry and			geometry		
Geometry and			Angles,		
Surveying			angles		
Lake Reserve		Co-ords	Bearings	Area and Length	
Latitude and	Representing	World Map	ge	Trigonometry	
Longitude	degrees with	positions		(SOHCAHTOA)	
	minutes and				
	seconds				
Levelling					Mean, Box &
					Whisker
Levelling #1				Height	
				with coolo	
Road Works			Angles on	Trigonometry	
			parallel	(SOHCAHTOA)	
			lines (minor	(,	
			part),		
			bearings		
Subdividing				Area and Trig	
Land					
Surveying the					
tria				(SONCATIOA)	
Time and Links	Conversion			24 Hour clock	
				Unit conversion	
				Area	
Trigonometry				Pythagoras and	
				SOHCAHTOA –	
				note angles in	
				degrees minutes	
Tria Hojabte #1		Writing		Trigonomotry	
		equations		(SOHCAHTOA)	
Tria Heights #2		Writing		Trigonometry	
ing noighte		equations		(SOHCAHTOA)	
Units	Standard form	Substitution	1	Unit conversions	
Vectors		Graphs (Co-	Shape	Area	
		ords)			
Where Am I?			Latitude		
			and		
			longitude		
			aeometry		

<u>Level Two</u>

Activity Name	Number	Algebra	Geometry	Measurement	Statistics
Buildings				Sine and cosine rules Feet/metre conversion	
Degrees Minutes Seconds			Circle geometry	Conversion to and from decimal degrees, length, radius	
Engineering Ideas			Interior Angles	Sine and Cosine rules, SOHCAHTOA	
Geometry #2		Write formula	Circle geometry	Length, area	
Heights and Sights				Trigonometry	
Mountains		Writing equations		Sine and cosine rules	
Sine and Cosine Rule #1				Sine and Cosine rules	
Three Friends			Interior angles	Trigonometry	
Trig Heights #4				SOHCAH TOA, Sine and cosine rules	
Trig Heights #5				SOHCAH TOA, Sine and cosine rules	

<u>Level Three</u>

Activity Name	Number	Algebra	Geometry	Measurement	Statistics
Angles and Angles				Trigonometry	
Area and Trig				Trapezium and Simpson's rules, Trigonometry, limits of accuracy	
Control Stations		Polar/rect	Circle	Sine and Cosine	
(Easy level 3)		coord conversion	geometry	rule	
Geometry # 4			Coordinate s, polar to rectangular , bearings		
Least Squares (Challenging)		Writing equations, Simultaneous equations		Partial derivatives	
Polar to		Co-ord	Bearings		
Residuals		conversion	Enlarge- ment (easy)		Std deviations, confidence intervals
Trapezium and Simpson's Rules				Numerical methods of integration	
Traversing		Possibly coordinate conversion (polar to rectangular)	Bearings and interior angles	Trigonometry (conversion to rectangular co- ords)	