	SLOS: Student will be able					
Date	to	Materials	Content	Evaluation	Homework	
	Linear regression					
Sat 11/15/08				the following Saturday,	(x + a)(x <sup>2</sup> + 2ax + a <sup>2</sup> )	

Sat 11/22/08 Plot (x, y) data			Follow-up questions, seat	Ball roll was to be
graph.	measuring		work, homework	graphed using evenly
	wheel,	Coordinates and plotting on an x-y graph		spaced scales.
	stopwatch,	(x, y) coordinate format		Recommendation
	chalk	use of two notebook sheets to create		was that notebook
		graph paper		paper turned by
		x-axis, y-axis		used.
		even spacing of tics		
		even differential of tics		
		plotting data		
		drawing a best fit line (not yet done)		
		The GPS was used to mark out 5 m		
		segments worth of 25 m of road. The ball		
		was rolled once and times were recorded		
		using Timex lap timer. Returned to class		
		to explain even axes, notebook paper		
		graphs, and started graphing. Those in		
		the class who had done xy graphing had		
		only seen coordinate notation and had		
		not worked from a table. Finishing the		
		graph was assigned as homework.		

Sat 11/29/08	Determine the slope	Determine	rise and run	Follow-up questions, seat	Same to be
	and y-intercept from (x, y) data.	whether students are	rise and run Calculating slope from rise and run on a graph reading slope from the graph Formula of slope from m=(y2-y1)/(x2-x1) reading the y-intercept from the graph Summer 08 notes: Went well and required period to get everyone on board with notation and calculations. Homework was the 120 m jog times I did the day earlier. Predictions were also tackled, the class had seen rise, run, slope, and forms before.	work, homework	Same to be performed on alternate data
	Find the slope- intercept form from a best fit line on a graph. Make predictions based on the equation of the line, both of y given x and of x given y.		Writing the slope-intercept form of the equation, use of point-slope form (y-y1)=m(x-x1) resolving slope-intercept form predictions	Follow-up questions, seat work, homework. u82: Students knew linear with intercept zero, add an intercept and the PNI students were having problems.	Based on alternate data

Sat 12/13/08		Balls, meter sticks	Reinforce ability to move from (x, y) data to a best fit line to a linear equation for the data and on to predictions using a ball and measuring the drop and bounce height. There is a probability that this will either have to be a third linear example or the quadratic work will advance to here.	Follow-up questions, seat work, homework	Based on alternate data
Sat 12/20/08				Test	
Sat 12/27/08			Solstice holidays		
	05 January: high scho				
			tion with focus on high school second qua	rter finals	
Tue 1/13/09	Second quarter finals	s at PICS			
Sat 1/17/09			Review December test, recover lost		
			memories		
	Accelerated mot	tion: the world	of parabolas and quadratic equations. W	hy ARE we factoring anywa	y?
Sat 1/24/09			Rolling a ball down an incline will	Follow-up questions, seat	Alternate data will
	accelerated motion		generate accelerated motion data.	work, homework	be provided for
	of a ball on a planar	wheel	Plotting the data should result in a		students to plot.
	surface		parabolic curve.		
	Plot non-linear data		Motion will be of the form:		
	plot and graph a		$y = ax^2$		
	parabola				
Sat 1/31/09	Find the coefficient		Replot graphing against x <sup>2</sup> to obtain a	Follow-up questions	
	of a simple		line, determining value of "a" from the		
	quadratic		slope of the line.		
			Suggestion: "ball" park <b>a</b> off of two		
			point on the quadratic. Work with		
			basic quadratic for now.		

Sat 2/7/09				Test	
Mon 2/9/09	Secondary champion	ship week			
Sat 2/14/09			Test review. Ball arc exercise and the parabola.		Rolled a marble in class, ensuring that c y-intercept would occur.
Sat 2/21/09			Factors lead to solutions. Solutions to factors.		
Mon 2/23/09	PDS Guam				
Thu 2/26/09	TRIO day. 23-28 TRIC	championshi	p week.		
Sat 2/28/09			Tentative tackle of completing the square to get at solutions and factors?		
Sun 3/1/09	WESTOP Arizona				
_			Statistics (tentative)		
Sat 3/7/09	Calculate the min, max, range, mode, median, mean for ten ball bounces		Introduction to statistical measures: mode, median, mean, range.		Given data, determine the min, max, range, mode,
					median, and mean for the data.

Sat 3/21/09	Predict the next number in a sequence	Introduce number sequences and patterns including even, odd, squares, cubes. Binomial expansion/breadfruit distribution, Pythagoras, powers of two.		Given in class.		
		Ambiguous series.				
Wed 3/25/09	Third quarter finals a	PICS through the 26th.				
	27 Student holiday ar	nd PTA PICS.				
Sat 3/28/09	Calculate ratios	Pigonacci series. Fibonacci ratio. Ratio				
	based on	spans in the sequence. Fibonacci in				
	measurements.	Pythagoras				
Tue 3/31/09	Tue 3/31/09 Rahn en Tiahk					
Sat 4/4/09		Fibonacci factoring. Greatest common				
		factors. Least common multiples				
Sat 4/4/09	Kosrae college visit					
Sat 4/11/09	Easter break					
Sat 4/18/09		Fibobelly ratios. Male and female means.				
Sat 4/25/09		TBD				
Sat 5/2/09		TBD				
Sat 5/9/09		TBD				
Sat 5/16/09		TBD				
Sat 5/23/09			Finals			