



Bangkok Patana School
The British International School in Thailand
 Established 1957

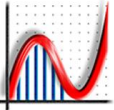



Autograph Training at Bangkok Patana School

Tuesday 11th and Wednesday 12th December 2012

Led by Alan Catley (UK)



	
Day 1	Tuesday 11th December 2012 Registration at 08:30 followed by – Welcome and the aims of the 2 days The sessions will involve an appropriate balance of demonstration and hands-on time to develop confidence putting the ideas and resources into practice. The programme can be flexible as the sessions progress.
Session 1	Introduction to Autograph and developing confidence at using many of the features. Appropriate activities to cater for all levels of expertise will be introduced and tried out with fully documented support
Session 2	A detailed focus on Analytical Geometry – gradients/lines and a whole host of ideas relating to Linear Functions (to include Linear programming if appropriate)
Session 3	Applications of Autograph to teaching/learning Quadratic Algebra and Graphing – including making constructive use of real world images
Session 4	Dynamic approaches to Transformation Geometry – reflections, rotations and enlargements to include an introduction to 3D Autograph designed to enhance the learning.
Session 5	Interactive approaches to Data Handling and Statistics using real data. Ungrouped and grouped data and measures of Central Tendency for both. Box Plots, Cumulative Frequency etc.
Plenary	Including discussion about the programme for Day 2



Alan Catley: Support for School and College Teachers to “bring mathematics to life”
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Day 2	Wednesday 12th December 2012 Coffee at 08:30 then a recap of the material covered during day 1 and deal with any issues that may have arisen.
Session 6	Calculus - Using Autograph to provide a dynamic, student centred approach to introducing Calculus. The basic rules for Differentiation and Integration etc.
Session 7	Autograph for Trigonometry – the angle measurer, Trig Graphs, Sine/Cosine rule. Introducing the Radian and fractional values of π – differentiation of trig functions leading to the Chain Rule etc. Compound Angles, Double Angle Formulae and Trig Equations
Session 8	Algebra and Functions - Applications of Autograph to more advanced Algebra and Functions – to include topics such as the Factor Theorem, General Equation of the Circle, Domain and Range, Inverse and Composite - $g(f(x))$ – Functions. Also dynamic investigative approaches to functions such as $\exp(x)$ and the associated calculus.
Session 9	More Advanced Statistics – Probability distributions, the Normal distribution, Hypothesis testing etc. Dynamic representations of Least Squares Regression and investigative approaches to correlation using real data
Session 10	Review of all ideas and resources covered during the previous sessions and other topics as requested – with a few ‘fun’ topics that may be of interest!
Plenary	Evaluations and arrangements for follow up support by e-mail Close by 3:30

Cost: One day: Bt. 4,750, Two days Bt. 8,000

Snacks, lunch and materials will be provided. All delegates will receive a free single user licence for Autograph 3.3.10

AUTOGRAPH RESOURCES (tutorials, blogs, online activities, data, images, etc) are linked from www.tsm-resources.com/autograph

To register a place on the course please register online and include your title, the name of your school, phone number and email address.

Online Link for registration: http://www.patana.ac.th/Gateway/Forms/Sign_Up.asp?ID=31

In addition to registering online, please email Debra Youplub – deyo@patana.ac.th to indicate whether you wish to attend Day One, Day Two or both days.

Location link: www.patana.ac.th/contact.asp

For other questions, contact Jackie Houghton - jaho@patana.ac.th