

# West Midlands Dynamic Mathematics Network GeoGebra for Beginners

Thursday 15th December 2011 9:45am – 3pm  
Queen Mary's Grammar School, Walsall

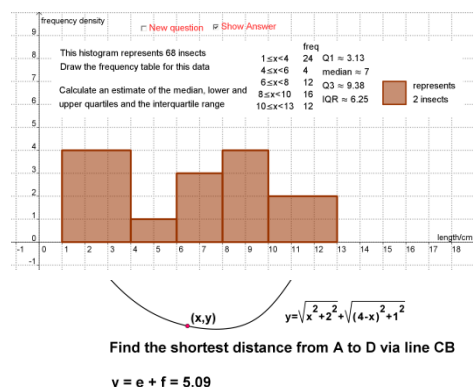
*GeoGebra is free, Open Source "Dynamic Mathematics" software.*

*It is designed to be easy to use by both pupils and teachers. The different aspects (Geometry, Algebra, Spreadsheet) interact in a unique way to demonstrate and allow exploration of Mathematics.*

This hands-on workshop is aimed at secondary maths teachers who have not used GeoGebra before.

In the morning there will be a 3 hour workshop (with break) which will focus on the following areas:-

- Getting started in GeoGebra
- Creating simple geometrical objects and transforming them
- How to create a self-marking worksheet
- Using the in-built spreadsheet to simulate spinning 100 coins
- Creating simple randomised examples (eg a line that has a random gradient -3, -2, -1, 0, 1, 2, 3)
- Using the spreadsheet to do a simple iteration
- Exporting to Word
- Exporting to a web page / Moodle
- The new features in GeoGebra 4.0



In the afternoon there will be a 1 hour session where delegates can practise the morning's ideas and extend them to create their own materials (with support available).

Cost £50 per person by cheque or invoice (to include tea/coffee and buffet lunch). To book a place, return the reply slip overleaf.



Michael Borchers has a unique perspective of GeoGebra: he is a full-time secondary maths teacher and he is also the Lead Developer for GeoGebra. In that role he has coordinated the development and added most of the features in GeoGebra 3.2 and is coordinating the development of GeoGebra 4.0. He is always looking for ways to make GeoGebra easier to use and adds features that have a real benefit for teachers and students. He has given many talks and workshops on GeoGebra at schools and universities.

Feedback from previous GeoGebra courses by Michael:

“Very useful, great package that is easy to use, will definitely put this into my teaching”

“Dynamic speaker. Very interactive. Excellent session 😊”

Return to: Michael Borchers, Queen Mary's Grammar School, Walsall WS1 2PG  
or email: michael@geogebra.org

Title and Date of Course: *GeoGebra for Beginners* Thursday 15th December 2011 9.45am – 3pm

Name of Delegate:

Address:

Email:

Dietary requirements:

Please delete as applicable:

I will bring my own laptop with GeoGebra installed from [www.geogebra.org/download](http://www.geogebra.org/download)  
I will need a laptop provided.

Please subscribe me to the GeoGebra-UK email list

Please do not subscribe me to the GeoGebra-UK email list

I enclose a cheque for £50 payable to *Queen Mary's Grammar School*

Please invoice me at the above address

### **Feedback from June 2010 Course**

I found out how to use GeoGebra! With the basics shown so far I feel I'd be able to experiment and create my own resources. There is definitely a use for many of the worksheets created today in my lessons and those of my department.

Excellent facilities, room, food, pace... everything. Perfect value for money

Excellent ideas of how to use in the classroom. Resources were great. Michael really knows his stuff!

Learnt about useful features in GeoGebra. Liked ease with which interactive resources could be produced. Will use gradient of straight line and reflecting a point in lessons and will try to produce similar activities of my own. Course well run, clear instructions and plentiful help. Pace suited all, well regulated. Handouts very useful.

Very useful familiarisation with GeoGebra. Lots of ideas to try out in lessons. Good pack of resources in the email attachment.

Very good session. Well presented. Very amenable. Recommended for all maths teachers.

This was all new to me. I have no doubt that I will be introducing GeoGebra to members of my faculty. The reflecting a shape or coordinate will prove useful in my lessons on Tuesday and Wednesday.