

## ABOUT THE CD

Both books come with CD support materials for each chapter  
- including classroom-ready Autograph files and copiable activity sheets -  
and a 30-day trial of Autograph.

Autograph is the most powerful and easy to use tool for teaching secondary and college maths. These books show how to use Autograph to best effect to teach core concepts in 16-19 mathematics. Download free sample activities from [www.chartwellyorke.com](http://www.chartwellyorke.com) to see how.

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| Teacher Demonstrations for 16-19 | <input type="text"/> | @ <del>£45</del> Now £25   |
| Student Investigations for 16-19 | <input type="text"/> | @ <del>£45</del> Now £25   |
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"...Autograph is an essential tool for secondary and college maths departments." Chris Drage, EC&T

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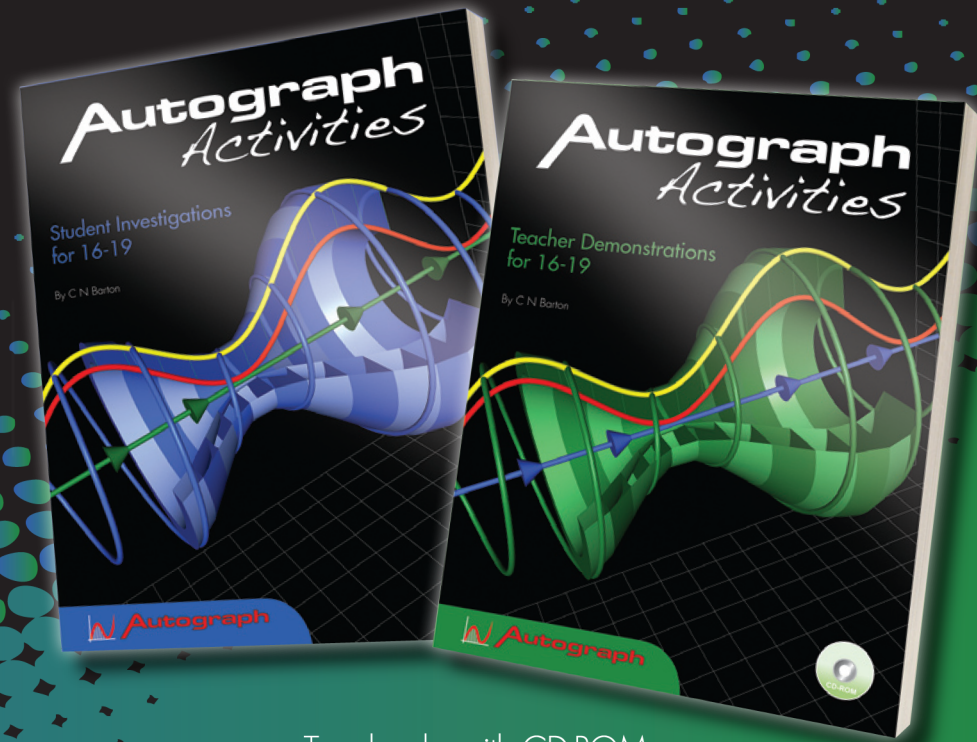


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# Autograph Activities

An inspiring new series of books by CN Barton



Two books with CD-ROMs

Teacher Demonstrations for 16-19  
Student Investigations for 16-19

Now available from

[www.chartwellyorke.com](http://www.chartwellyorke.com)

# Autograph Activities

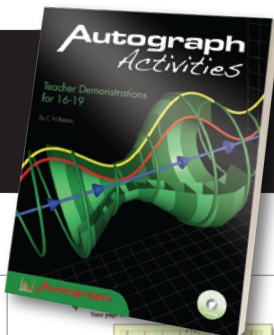
## Teacher Demonstrations for 16-19

The 15 Teacher Demonstrations show how to dynamically introduce, review, extend or illustrate important topics or concepts in ways not previously possible. They are intended for use on an interactive whiteboard or with a digital projector. The demonstrations are presented in an easy to follow, step-by-step manner, complete with full colour screen shots, suggested questions and prompts, thus allowing even a first time user to feel confident enough to deliver them.

### Topics covered include:

The Trapezium Rule; Things to Watch Out for when Integrating; Introducing Volumes of Revolution; Introducing the Concept of Differentiation; Discovering the Gradient Functions of Trigonometric Functions; Discovering the Chain Rule; Reciprocal Trigonometric Functions; Investigating Trigonometric Identities; Completing the Square - a graphical approach; Trigonometric Parametric Equations; Discovering First Order Differential Equations; Understanding the Binomial Approximation; Discovering  $e$ ; Discovering the Natural Log Function; Laws of Logs - a graphical approach.

**Step-by-Step Instructions**



The screenshots show various mathematical activities such as graphing functions, solving equations, and using the trapezium rule. Each screenshot includes text prompts and instructions for the user.

# Autograph Activities

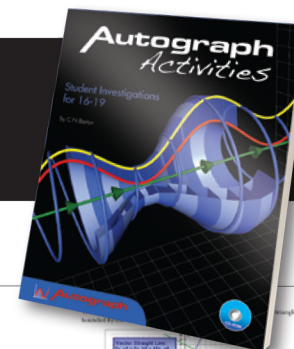
## Student Investigations for 16-19

Autograph is an excellent tool for investigation, and mathematics is at its strongest and most appealing when students can embark upon such journeys of self-discovery. The ten activities are designed to allow students to fully utilise Autograph's power to explore, investigate and ultimately understand concepts at a depth which the normal classroom setting would not allow.

**Ready to use Activities & Copiable Worksheets on CD-ROM**

### Areas covered include:

Transforming the Graphs of Functions; Volume of Revolution Investigation; Co-ordinate Geometry Practice; A Cubic Investigation; Discovering the Rule for the Gradient Function; Investigating Functions; Investigating Vectors in 2D and 3D; Investigating Iteration; Linear Programming Investigations; Flying Gonzo.



The screenshots show various mathematical investigations such as finding equations of lines, solving quadratic equations, and exploring trigonometric functions. Each screenshot includes text prompts and instructions for the student.