

2005

# mathematics

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# THE **PUBLISHERS** ASSOCIATION

As members of the Educational Publishers Council we work to ensure that schools and colleges have access to the learning resources they need for the effective implementation of the government's education policies.

# **The Complete Mathematics Solution**

### KEY STAGE 3 SMP Interact for the Mathematics Framework

#### Authors: The Schools Mathematics Project

This highly acclaimed and comprehensive book-based course supports a teacher-led, discussion-based approach as recommended by the Key Stage 3 *Framework for Teaching Mathematics*.



### 'In twenty-four years as a Head of Department, this is the best scheme that I have seen.'

M King, Head of Mathematics, Hastingsbury Upper School, Bedfordshire

Pages 4 – 7

### KEY STAGE 4 SMP Interact for GCSE Mathematics

#### Authors: The Schools Mathematics Project

This extensively trialled and confidence-building course fully covers all linear and modular specifications and provides easy-to-use and fresh material for GCSE level.



'Superb! There is an excellent range of imaginatively written questions on each topic. My students have been very enthusiastic about their new maths scheme ...'

Shirley Rowlings, Head of Mathematics, Stratford Girls' Grammar School, Stratford upon Avon

Pages 8 – 11

# for all your Maths needs ...

NEW

# AS/A2 SMP books for AQA and Edexcel specifications

Authors: The Schools Mathematics Project

Based on extensive feedback from teachers, *SMP AS/A2 Mathematics for AQA* and *SMP AS/A2 Mathematics for Edexcel* are two brand-new book series written by the experienced team that produced SMP Interact for GCSE. *SMP AS/A2 Mathematics for AQA* and *SMP AS/A2 Mathematics for Edexcel* consist of clear, user-friendly texts that both teacher and student will enjoy using.

## SMP AS/A2 Mathematics for AQA



# SMP AS/A2

# Mathematics for Edexcel



#### NEW

### AS/A2 Revised Cambridge Advanced Mathematics for OCR – endorsed by OCR

The new edition of *Cambridge Advanced Mathematics for OCR* has been revised by experienced teachers and examiners to match the new GCE specification and to meet your schools' latest requirements. The easy-to-use texts clearly state learning objectives, carefully explain mathematical ideas and provide many stimulating worked examples.



#### Authors

The School Mathematics Project







# SMP Interact: Framework Edition

## Discuss...

#### Discussion generates ideas, throws light on misconceptions and yields shared understanding for pupils to build on.

SMP Interact: Framework Edition encourages discussion with its fresh approaches and spot-on activities.

# Enjoy...

# Enjoyment is wanting to take the next step – through being helped to see for yourself.

SMP Interact: Framework Edition motivates pupils, offering all the support and challenge they need.

# Succeed...

# Success is about going for each new goal with understanding and confidence.

SMP Interact: Framework Edition provides clear, coherent material that always lives up to your expectations.

'There are clearly defined objectives for each chapter, plenty of questions of increasing challenge and invaluable assessment at the end of the topic. Frequent investigation ideas provide suggestions for extension and display work.'

Shirley Rowlings, Head of Mathematics, Stratford Girls' Grammar School, Stratford upon Avon

Key Stage 3 11–14



Sample spread from pupil's book 7S

#### Suited to the Framework's three-part lesson

- New sections in the teacher's guides provide a rich vein of ideas for oral and mental starters.
- Advice throughout the teacher's guides, linked to beige T-bars on the edge of the pupil's pages, supports the teacher's central role in the main part of the lesson, particularly in managing effective whole-class discussion.
- Clear objectives and progress checks in blue panels, together with other key summaries, form an essential resource for the final plenary.
- Effectively structured so the Framework content is presented coherently in a one-book-peryear structure. Three carefully differentiated tiers fulfil a broad range of needs.

#### Well structured

- There is one book per year in three differentiated tiers, with a teacher's guide and an optional practice booklet for each pupil's book. Resource sheets come as packs of photocopiable masters.
- For each year there's a pack of assessment materials, containing hundreds of high-quality assessment items linked to the units in the books and related to national curriculum levels; these packs can save a department weeks of test preparation.
- Photocopiable masters and alternative digital files are supplied in each assessment pack.







'... with three interchangeable tiers, the children can move groups but carry on with the same work. The staff and students are enthusiastic about *SMP Interact.*'

> Pete Jameson Head of Mathematics Ixworth Middle School Suffolk

#### Assessment packs available

Assessment materials for year 7 £85.00

Assessment materials for year 8 £75.00

Assessment materials for year 9 £65.00

#### **Contact SMP**

The assessment materials are only available direct from SMP: go to **www.smpmaths.org.uk** to find out more and to download sample assessments and an order form.

# Supporting the teacher, motivating the pupil ...

#### Stimulating

Careful development and full-scale trialling have gone into *SMP Interact*, with teachers' ideas and feedback enhancing the course at every stage.

The result? A distillation of teaching material of unsurpassed quality – motivating, clear and thorough.

#### Supportive

The teacher's guides include a wealth of ideas for oral and mental starters, together with advice on activities and discussion that bring the key mathematical ideas to life.

#### **Complete**

All books are fully available, making the decision to adopt the course easy as it can be based on a comprehensive overview.

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There are three packs, one for each year, containing assessments linked to the units in the books, non-calculator assessments and mental questions. The assessments come as hard copy masters, pdf files and as Word files that you can edit into assessments for your own particular needs. The unit assessments and non-calculator assessments give guidance on national curriculum levels. The assessment materials are only available direct from SMP.

### Free SMP Interact planning materials

Go to **www.smpmaths.org.uk** for free cross-references from the Framework's yearly teaching programmes to the new Framework edition for Key Stage 3, as well as a free Excel-based medium-term planner, which gives detailed learning objectives and Framework references for the whole course, saving you hours of effort when writing a scheme of work.

#### Book FN

*Book FN* offers additional help and support with number work for pupils following the T course in years 7 and 8. *Book FN* has an accompanying teacher's guide and resource sheets.



### Make your budget go further – prices held until July 2005.

We guarantee to maintain list prices until July 2005. All the prices are shown in the panels below.

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Find details of local sales consultants on page 21 and arrange for a convenient time for them to talk to you about SMP Interact Framework edition.



£9.00



£20.00

£20.00

# SMP Interact for GCSE

Extensively trialled and praised for building students' confidence, SMP Interact for GCSE follows the same Discuss, Enjoy and Succeed principles of the Framework Edition.

'... the materials have increased the students' confidence and are leading to improved performance in the classroom, which we are sure will be reflected in their examination result.'

> M. King Hastingbury Upper School



#### Versatile

There's a two-year student's book for each tier, covering the tier content of all linear and modular specifications for the main exam boards.

#### **Supportive**

There are helpful summaries and at the end of each unit there are questions for self-assessment. Real exam questions from a variety of boards boost confidence. There's a teacher's guide and an optional practice book for each student's book. The practice book follows the structure of the main text, making it easy to organise extra practice, homework and revision.

Time-saving resource sheets come as packs of photocopiable masters.

#### **Comprehensive**

Topics are treated thoroughly. And unique material builds the ideas needed for the GCSE coursework, including data-handling.

#### Confidence building

The books offer real exam questions from a variety of boards to help build students' confidence.

#### Easy to use

*SMP Interact for GCSE* clearly states objectives, has questions for self-assessment and clearly marked links to advice in the teacher's guide.

### Sample unit from the Intermediate Book



Sample spread from the Intermediate book

#### Key

- 1. assumed knowledge
- 2. learning objectives
- 3. link to the teacher's guide, where there's advice on a teacher-led start to the unit
- **4**. non-calculator questions
- 5. clear worked example
- 6. plenty of carefully graded practice
- 7. 'starred' question providing extra challenge







Student's Book 0 521 89030 3 £13.75



Teacher's Guide 0 521 89031 4 £29.95

# Foundation Tier

### 'Superb! There is an excellent range of imaginatively written questions on each topic.'

Shirley Rawlings, Head of Mathematics





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lan James, Head of Mathematics

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M. King

Hastingbury Upper School

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# Complete support for SMP Interact...

Go to www.smpmaths.org.uk for the following free support material, mostly as downloadable Excel files that you can adapt for your own needs.

#### Key Stage 3

- Medium-term planner a book-by-book, section-by-section listing of learning objectives and Framework references; it takes the drudgery out of medium-term planning and writing a scheme of work; and you can search it to find topics
- Cross-references to the Framework's yearly content
- Downloadable samples of the assessment materials
- Descriptions of the books in terms of national curriculum levels
- Catch-up objectives integrated early in the T tier

#### GCSE

- Cross-references for OCR specification C (modular)
- Cross-references for Edexcel specification B (modular)
- Cross-references for AQA specification B (modular)
- Guidance for WJEC users
- Guidance for CCEA users





#### www.cambridge.org/smp

... for downloadable samples from the pupil's books and teacher's guides, content details for each book and full ordering information.





A Level

16–19

#### Authors

The School Mathematics Project

#### NEW

# SMP Mathematics for AQA

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(May 2005) Statistics 2 0 521 60531 8	
(July 2005) Mechanics 2	
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#### The major new series for the new AQA specification

Based on extensive feedback from teachers, *SMP AS/A2 Mathematics for AQA* is a brand-new series written by the experienced team that produced *SMP Interact for GCSE. SMP AS/A2 Mathematics for AQA* consists of clear, user-friendly texts that both teacher and student will enjoy using.



#### **Features include:**

- Content clearly related to the AQA specification
- Each chapter's objectives clearly stated, with questions for self-assessment as follow-up
- New concepts developed in a way that involves the student
- Carefully chosen worked examples
- Plenty of revision and practice, including past AQA exam questions
- Key points clearly highlighted and summarised



Sample spread from Core 1 for AQA

Past AQA exam questions



Contents lists and downloadable samples available on the SMP website. Visit www.smpmaths.org.uk









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#### Authors

The School Mathematics Project

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#### NEW

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- Content clearly related to the Edexcel specification
- Each chapter's objectives clearly stated, with questions for self-assessment as follow-up
- New concepts clearly developed in a way that involves the student
- Carefully chosen worked examples
- Plenty of revision and practice, including real Edexcel exam questions
- Key points clearly highlighted and summarised



Key points for students to refer to in later work or revision

Sample spread from Core 1 for Edexcel

For the equation of the image

replace x by (x - a)and replace y by (y - b)

replace y by -y

replace x by -x

replace x by  $\frac{1}{k}x$ 

replace y by  $\frac{1}{k}y$ 

Image of y = f(x)

y - b = f(x - a)or y = f(x - a) + b

-y = f(x)or y = -f(x)

 $\int_{0}^{1} \frac{1}{k} y = f(x)$ 

y = f(-x)

 $y = f\left(\frac{1}{k}x\right)$ 

(pp. 103, 109)

(pp 105, 110 (pp 105, ±1)

(pp 107-108, 11)

(pp 107-108, 110



Transformation

Translation of  $\begin{bmatrix} a \\ b \end{bmatrix}$ 

Reflection in the x-axi

Reflection in the y-axis

Stretch by factor k in the x-direction

Stretch by factor k in the y-direction

112 R Graphs and transfor

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7 The diagram shows the graph of y = f(x). It has rotation symmetry about (0, 0), Point P (2, -2) lies on the curve. y

 $y = \hat{f}(x)$ 

(a) Sketch, on separate diagrams, the following graphs. On each graph label the image of point P, giving its coordinates.
 (i) y = f(2x) (iii) f(x + 3)
 (b) Describe the transformation that maps the graph of y = f(x) on to the graph of y = f(2x).

**8** Describe the transformation that maps the graph of  $x^2 + y^2 = 9$  on to the graph of  $x^2 + \frac{1}{4}y^2 = 9$ .

T-level.

8 Graphs and transformations | 113

#### **Authors**

Hugh Neill Douglas Quadling Steve Dobbs Jane Miller Stan Dolan

#### **Titles available**

FURTHER MATHEMATICS BOOKS AVAILABLE

#### Revised to match the new 2005 specification

# Cambridge Advanced Mathematics for OCR The new revised series for the OCR specification

# Fully endorsed by OCR for use with OCR Mathematics GCE specification

The new edition of *Cambridge Advanced Mathematics for OCR* has been revised by experienced teachers and examiners to match the new GCE specification.

The easy-to-use texts clearly state learning objectives, carefully explain mathematical ideas and provide many stimulating worked examples. *Cambridge Advanced Mathematics for OCR* is fully endorsed by OCR for use with the new OCR Mathematics GCE examinations.



#### 'In a word ... excellent.'

Pete Lane Swinton Community School Maths and Computing College

A Level 16–19

Clear chapter summary



Sample spread from Core 1 and 2

#### The new edition encourages achievement by:

- supporting revision and consolidation through review exercises and mock exam papers written by experienced examiners
- exploring ideas through practical and computer activities

# **Decision** Maths

These revised Decision titles are also available for AQA:





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#### Author

### Wendy

Fortescue-Hubbard Wendy Fortescue-Hubbard is a maths specialist with over 15 years of teaching experience. Since April 2002 she has written the Mathagony Aunt column in the *Times Educational Supplement*.

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**For International Schools** 

# Mathematics: IGCSE

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### Mathematics Revision Guide: IGCSE

#### Author: Martin Law

This comprehensive revision guide meets the requirements of the University of Cambridge International Examinations (CIE) syllabuses for IGCSE Mathematics (0580, 0581).

### Advanced Level Mathematics

#### Authors: Hugh Neill, Douglas Quadling, Steve Dobbs, Jane Miller

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**Ruth Watson** phone/fax 0117 924 4343 mobile 07899 843620 email rwatson@cambridge.org Bournemouth, Bracknell Forest, Brighton and Hove, Ealing, Hammersmith and Fulham, Hampshire, Harrow, Hillingdon, Hounslow, Kingston, Isle of Wight, Merton, Poole, Portsmouth, Richmond, Slough, Southampton, Surrey, Sutton, Wandsworth, West Sussex, Windsor and Maidenhead, Wokingham

**Leonore Sears** phone/fax 01273 400521 mobile 07899 843619 email Isears@cambridge.org

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mobile 07899 843618 email jwells@cambridge.org

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**Barbara Orridge** phone/fax 01529 240917 mobile 07774 239098 email borridge@cambridge.org

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Kate Chow phone/fax 0151 280 1049 mobile 07899 843621 email kchow@cambridge.org

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