

ENJOYMENT

The 'Maths is ...' Jugglers

Knowledge Skills Understanding

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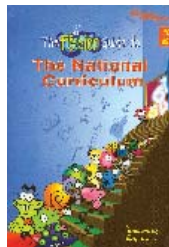
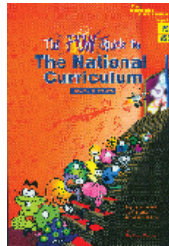
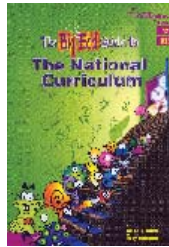
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Visit Jugglers' new and improved website at
www.mathsisjugglers.com

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To the HEAD OF MATHEMATICS

ARE MATHS TEACHERS AT YOUR SCHOOL FED UP ? ...

...with not having enough time to find/create interesting and motivational material for every one of their maths lessons ?

Do their students find their maths exciting and challenging ?

Do their students look forward to maths lessons ?

Do they think that maths is FUN ! ?

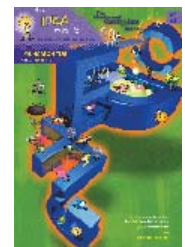
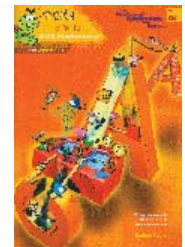
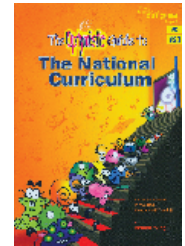
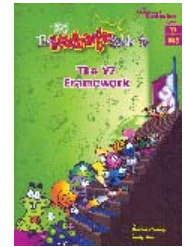
Do YOUR TEACHERS need a free source of new ideas/material ?

Download one topic (3-4 weeks work) from each of Jugglers 25 current texts, with permission to use with your students in whatever way you choose.

Teachers' Resources for each topic can also be downloaded for FREE.

Barbara Young has spent over 30 years developing material to motivate her students - of all abilities. She believes that mathematics teaching should be rigorous – but learning should be ENJOYABLE ! One teacher, whose school had just started work with Jugglers' texts, was reported to say "I'd forgotten that teaching maths could be such fun!"

Books and Resource Packs ordered directly from The 'Maths is ...' Jugglers (via Jugglers' website, by email, fax, telephone or post) will be charged at PUBLISHER'S PRICES. Save £2 per book & at least £5 per Resource Pack from the RRP.



The 'Maths is ...' Jugglers

Knowledge Skills Understanding

THE ORIGINAL COURSE (see page 4)

Y7 Big Edd (A5)
Y7 Kooldood **EXTRA** (A4)

Y8 Fission (A5)
Y8 Chyps **EXTRA** (A4)

THE FRAMEWORK COURSE (see page 4)

Y7 Headbanger (A5)
Springboard 7 ** ** Information on www.mathsisjugglers.com

Y8 Yerwat (A5)
Y8 Driller **EXTRA** (A4)

THE Y9 COURSE (see page 5)

Y9 Optymistic (A5)
Y9 Pow **EXTRA** (A4)

GCSE FOUNDATION COURSE (see page 7)

Y10 Sureshot **EXTRA** (A4)
Y11 Sureshot **EXTRA** (A4)

Download these FREE SAMPLE TOPICS with permission to print off and use with your LOW ATTAINERS. at www.mathsisjugglers.co.uk

- Y7 Kooldood **EXTRA** : Fractions and Decimals
- Y8 Chyps **EXTRA** : Symmetry
- Y8 Driller **EXTRA** : Sequences and Graphs
- Y9 Pow **EXTRA** : Bar Charts and Beyond
- Y10 Sureshot **EXTRA** : Measurement in Action
- Y11 Sureshot **EXTRA** : Developing Efficient Non-Calculator Techniques

For each Sample Topic you can also download, print off, and use Teachers' Notes, Worksheets, Star Challenge Answers, Revision and Assessment.

For example, for the Y8 Chyps Topic, download Y8 Chyps Resource Sample.

Half Price Offer
Schools can order single copies of many texts at half price, using the Special Offers Form (p8).

There is much more information about each one of the EXTRA texts, including sample problems, on Jugglers' website: www.mathsisjugglers.co.uk

EXTRA Motivation for Low Attainers

An unusual approach to Mathematics for Low Attainers – that works !!

Students in our lower sets said
"We don't want a course that only does the easy stuff (a 'dumbo' course). We want to do the same work as everyone else.
So, will you please:• make the instructions and explanations clearer
• introduce ideas more slowly and put in extra steps
• put in extra practice
• make the work interesting"

SO WE DID !

Our EXTRA texts for LOW ATTAINERS do not follow the route used by so many other texts for these students. Instead of giving them lots of easy material, we took the syllabus and delivered it in such a way that LOW ATTAINERS could understand and cope with the ideas and techniques.

We gave them what they had asked for !!

But we couldn't have produced these texts had it not been for the active help of the students themselves. We started with the mainstream texts and students really enjoyed finding out what didn't work for them - but, more importantly, WHY!! They quickly became expert at pinpointing where the material didn't work for them and helping to find what would work for them. Devising ways that would work took a lot of working/trialling with LOW ATTAINERS, and we ended up with the EXTRA texts. These work exceptionally well, particularly with bottom sets, disaffected students and students at Pupil Referral Units.



Each KS3 EXTRA course :

- has been specially developed for low attainers
- is a version of the the equivalent mainstream course
- has lots of EXTRA practice on all techniques
- can be run alongside the mainstream course
- can stand on its own
- is suitable for the lower 50% of the ability range

Each student:

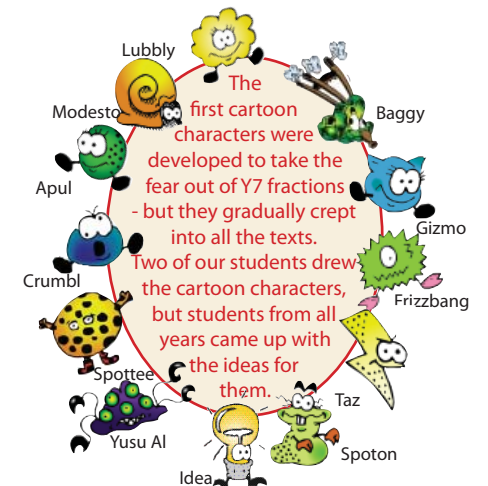
- takes responsibility for his/her own learning
- can decide how much practice (s)he needs to do for each technique
- can try Star Challenges when (s)he feels ready for them
- will be capable of taking the mainstream tests

The authors firmly believe that all students can tackle the material in the mainstream course.

However, some students need :

- more time to get to grips with the ideas and techniques involved
- lots of EXTRA practice
- complex instructions simplified
- one idea at a time introduced step-by-step
- to meet ideas and techniques over and over again

Most students in lower sets are underachieving. These texts aim to raise the level of achievement of such students.



AIMING HIGH

is a totally different style of AS/A Level Mathematics text book. It has had an incredible impact since the series launch.

Download these FREE SAMPLE TOPICS with permission to print off and use with your students, at www.mathsisjugglers.co.uk

- Aiming High C1&C2 : Differential Calculus
- Aiming High C3&C4 : Rational Functions
- Aiming High S1 : Correlation and Regression
- Aiming High M1 : Introduction to Kinetics
- Aiming High M2 : Projectiles
- Aiming High M3&M4 : Motion in Vertical Circles

You can also download and use Teachers' notes, Student's Study Guide, Answers to Competence Test, Test and Test Answers, for each sample topic.

For example, for the C1&C2 Aiming High Topic, download C1&C2 Aiming High Resource Sample.

Each text contains everything a student needs:

- clear waffle-free explanations
- plenty of examples
- basic technique practice exercises leading up to questions of examination standard
- a large bank of AS/A Level Exam revision questions at the end of each text (with a COPYMASTER booklet of model answers in the Teacher's Resource and Assessment Pack)



Publisher's Prices:
 C1&C2, C3&C4 Pub Price £15 each
 S1, M1, M2, M3&M4 Pub Price £9 each

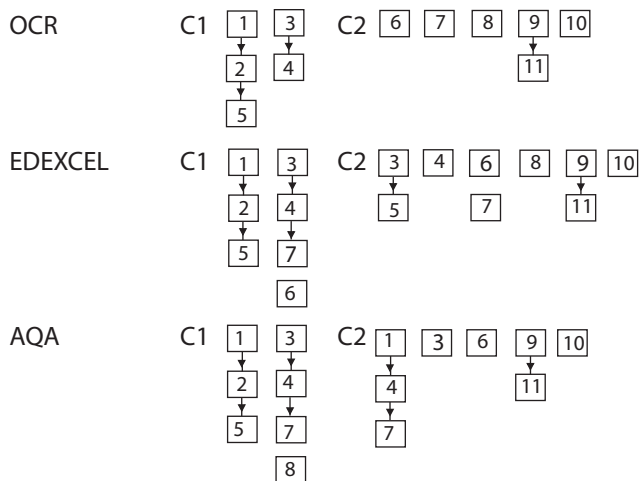
Each Aiming High text:

- develops understanding and good mathematical practice
- is accessible to weaker students but also contains plenty of material to stretch able students
- allows able students to forge ahead at their own pace - if they wish to
- raises the attainment of ALL students – from the outstandingly able to the 'don't want to knows'
- has been developed in the classroom with the active help of sixth form students

Aiming High was developed in the classroom by Barbara Young, working with the students of Tarporley High School, a non-selective comprehensive in Cheshire. Because of the strength of mathematics lower down the school, more than half the A-Level students at Tarporley take at least one Mathematics A-Level.

HOW THE UNITS ARE RELATED

also showing how C1 can be split, if two teachers are delivering it.



Contents of C1&C2 units

- Unit 1: The Bridge between GCSE and A-Level
- Unit 2: Quadratic Expressions and Equations
- Unit 3: Coordinate Geometry and Graphs
- Unit 4: Differential Calculus
- Unit 5: Completing the Square
- Unit 6: Sequences and Series
- Unit 7: Integration
- Unit 8: The Factor and Remainder Theorems
- Unit 9: Trigonometry
- Unit 10: Logarithms and Indices
- Unit 11: Radians and Trigonometry
- A-Level Questions: Revision for C1&C2 Exams (A COPYMASTER booklet of model answers is in the Teacher's Resource and Assessment Pack)

Unit 5: Completing the Square

- CONTENTS
- Section 1: The basic technique
 - Section 2: Maximum and minimum values (including sketching curves of quadratics in completed square form)
 - Section 3: Solving quadratic equations (including deriving 'the formula')
 - Section 4: More quadratic inequalities
 - Section 5: Circle equations

	OCR	AQA	Edexcel
Section 1	C1	C1	C1
Section 2	C1	C1	C1
Section 3	C1	C1	C1
Section 4	C1	C1	C1
Section 5	C1	C1	C2

Each text is clearly labelled so that teachers know what is required for OCR, AQA & Edexcel's syllabuses.

Optional Teachers' COPYMASTER Resource & Assessment Packs

The packs contain:

- brief teaching notes
- student's study guide (also contains a list of formulae that must be learnt)
- model answers to competence tests (these tests are in the text, at the end of each topic)
- a test and retest for each unit
- model answers to tests and retests
- COPYMASTER booklet of model answers to the large bank of AS/A Level Exam revision questions at the end of each text

Resources for C1&C2, C3&C4 Pub Price £30 each
 Resources for M1, M2, M3/4, S1 Pub Price £20 each

Half Price Offer

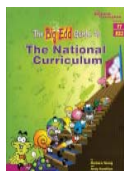
Schools can order single copies of many texts at half price, using the Special Offers Form.

When you get students bringing these text books to show their teachers, having borrowed a copy from a student at another school ...

When you get teachers taking copies to conferences to show other teachers ...

... THEN YOU KNOW THAT THEY ARE GOOD !!

TWO COURSES THAT DELIVER THE NATIONAL CURRICULUM IN Y7 & Y8



Pub Price £13

THE ORIGINAL COURSE

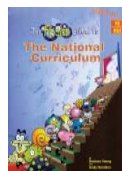
The Big Edd Guide

to the National Curriculum (Y7)

The Fission Guide

to the National Curriculum (Y8)

by Barbara Young & Andy Hamilton



Pub Price £13

These are the ORIGINAL TEXTS that have motivated both Students and Teachers – and markedly raised the attainment, in so many schools.



Big Edd

These two texts form a two year course. The material is mostly based on Levels 4-6 of the National Curriculum, but the problem-solving skills developed by students can reach a very high level.



Fission

- Y7 Big Edd and Y8 Fission provide a sound, broad-based, course with the accent on extension rather than acceleration. [See 'Create your own magic square' - opposite.] Basic techniques are taught/reinforced and plenty of practice given, but the accent is on problem-solving skills and enjoyment of mathematics.
- StarChallenges motivate students of all abilities. With them, each student demonstrates his/her mastery of the technique(s) recently met. The number of stars is a measure of the difficulty of a Challenge. However, many three star challenges are accessible to students over a wide ability range, and students can earn 1, 2 or 3 stars on such a challenge.
- At the end of each topic in each text, there is a set of HIGH LEVEL CHALLENGES, all linked to the topic. Able students are expected to tackle these Challenges when they complete a section (rather than moving onto the next section ahead of the rest of the class).

Students can also do them in their own time.

Download these FREE SAMPLE TOPICS with permission to print off and use with your students, at www.mathsisjugglers.co.uk

- Y7 Big Edd : Shape
- Y8 Fission : Skills in Algebra
- Y7 Headbanger : Fractions, Decimals, Percentages & Ratios
- Y8 Yerwat : Working with Data

For each Sample Topic you can also download and use Teachers' Notes, Worksheets, Star Challenge Answers, Revision and Assessment. For example, for the Y7 Big Edd Topic, download

Y7 Big Edd Resource Sample.

Optional Teachers' COPYMASTER Resource & Assessment Packs

The packs contain:

- teaching notes
 - worksheet masters
 - answers to Star Challenge:
 - end of topic Revision Sheets **
 - end of topic Assessments **
 - Revision and Assessment Answers **
 - Can-do sheets **
- Fission & Chyps together : £75
Yerwat & Driller together : £75
Big Edd & Kooldood together : £75
Headbanger : £50
- ** indicates 'matched to National Curriculum Levels'

Half Price Offer
Schools can order single copies of many texts at half price, using the Special Offers Form.

For each mainstream text, Big Edd, Fission and Yerwat, there is an EXTRA version, which has been developed for low attainers. For information about the EXTRA texts, go to page 2.



Y7 Kooldood EXTRA
Pub Price: £14

Y8 Chyps EXTRA
Pub Price: £14

Y8 Driller EXTRA
Pub Price: £14

However, there is much more detailed information for each EXTRA text, including some sample problems, on the Jugglers' website

www.mathsisjugglers.co.uk

Go to page 8, for information about The Y7 Student's Challenge Book, which was put together for use with students using Y7 Big Edd or Y7 Headbanger.



Pub Price £13

THE FRAMEWORK COURSE

The Headbanger Guide to The Y7 Framework

The Yerwat Guide to The Y8 Framework

by Barbara Young & Andy Hamilton



Pub Price £13

These books contain most of the material in the Big Edd Guide and Fission Guide, rearranged to fit the Y7 & Y8 Frameworks.

- These two books deliver the Y7 & Y8 Frameworks in topics, and they are accompanied by documents that map each section of each text clearly to the Framework.
- Y7 Framework contains a revision of Level 4, but is mainly Level 5.
- Y8 Framework is a consolidation of Level 5 and a start on Level 6.
- An integral mental arithmetic course runs throughout both texts.
- Each section is planned to be one lesson, but teachers can adapt them to suit themselves. Any techniques which are mental/oral starters, or those which need teaching, are at the beginning of the section. The development exercises form the core of each section. Each section also contains Star Challenges to be attempted at the end of the development exercises and/or set for homework.



Headbanger



Yerwat

Download these FREE SAMPLE TOPICS with permission to print off and use with your students, at www.mathsisjugglers.co.uk

- Y9 Optimistic : Differential Calculus
- Y9 Pow **EXTRA** : Bar Charts and Beyond

For each Sample Topic you can also download and use Teachers' Notes, Worksheets, Star Challenge Answers, Revision and Assessment. For example, for the Y9 Optimistic Topic, download [Y9 Optimistic Resource Sample](#).

Optional Teachers' COPYMASTER
 Y9 Resource & Assessment Packs

Each pack contains: **** indicates 'matched to National Curriculum Levels'**

- teaching notes
- worksheet masters
- answers to Star Challenges
- end of topic Revision Sheets ******
- end of topic Assessments ******
- Revision and Assessment Answers ******
- Can-do sheets ******
- Mental arithmetic course (Pow only)

Optimistic : £50 Pow : £50

TWO BOOKS THAT DELIVER THE Y9 NATIONAL CURRICULUM IN AN ENTIRELY NEW WAY

The two texts that MOTIVATE Y9 students of all abilities by giving them:

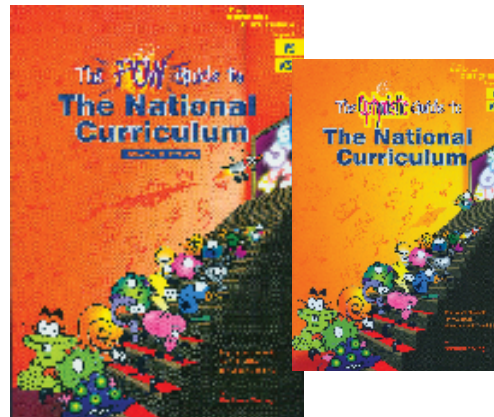
- a totally different approach to mathematics
- responsibility for their own success
- a well-deserved sense of achievement
- ENJOYMENT

BOTH THE ORIGINAL COURSE AND THE FRAMEWORK COURSE LEAD TO ...

Pow



The Y9 Pow Guide **XTRA**
 This A4 text delivers Levels 3-6 through 9 topics.



Optimistic

The Y9 Optimistic Guide
 This A5 text delivers Levels 4-8 through 11 topics.

Y9 Pow and Y9 Optimistic are stand-alone courses.

They build on the firm foundations laid down by our Y7-8 texts but can also be used following any Y7&8 material.

Each topic progresses steadily up the levels and is labelled clearly with the levels.

- For each topic, choose the best starting point(s) for your students.
- Tell them how long they will be allowed to spend on that topic.
- See how far they can progress up the levels in that time.

Better students are not held back by slower classmates. Teachers have time to spend with those who most need their help.

Watch well-motivated students fly!
 Watch confidence soar!

Contents lists for Y9 Pow and Y9 Optimistic and sample problems from both texts

are shown in the website pages for both these texts.

These texts were developed by Barbara in the classroom over several years, with the enthusiastic help of her students, and then trialled in a wide variety of schools. All students, even those in lower sets, are extremely well motivated working with this material.

Half Price Offer
 Schools can order single copies of many texts at half price, using the Special Offers Form.

The Idea Guide to GCSE Mathematics

by Barbara Young



Pub Price £13 for each text

The GCSE FOUNDATION COURSE

that is **accessible to and motivates LOW ATTAINERS**

and also

motivates and enables Foundation Students aiming for a "grade C".

In trialling, low attainers tackled 1 section per lesson.

The Foundation Syllabus is delivered in 17 topics. Each topic is divided into sections. Each section covers a small group of linked ideas & techniques. Each section is in two parts: **WORKING TOGETHER** and **ON YOUR OWN**.

In trialling, middle set students tackled 1-2 sections per lesson.

Many of the trialling teachers working with **low attainers** used the **Interactive Whiteboard** format of "WORKING TOGETHER", which is available on the Teachers' Resource CD-Rom. ALL the teachers were delighted with the improvement in motivation.

More difficult material (for grades D and C) is usually at the end of each topic. Sections that contain "grade C" material are labelled with a "C" on each topic contents page.

WORKING TOGETHER

The first part of each section is a series of linked exercises developing ideas & techniques **step-by-step**.

Most trialling teachers working with **more able Foundation students** used the exercises in "WORKING TOGETHER" as teaching material in the usual way - **on their black/white boards**.

ON YOUR OWN

The second part of each section includes motivating puzzles and problems, as well as exam-style questions, based on the ideas met in "Working Together".

Teachers/students choose as much, or as little, as is needed from "ON YOUR OWN", depending on the abilities and needs of the students.

An unusual approach to GCSE Foundation Mathematics – that works !!

Students in our lower sets said

"We don't want a course that only does the easy stuff (a 'dumbo' course).

We want to do the same work as everyone else.

- So, will you please:
- make the instructions and explanations clearer
 - introduce ideas more slowly and put in extra steps
 - put in extra practice
 - make the work interesting"

SO WE DID !

But, we then found that this approach also worked well with GCSE students in the middle sets.

Students can choose which of the problems to tackle in the **ON YOUR OWN** material.

Motivation soars and so do exam grades.

Yes - this approach WILL WORK WITH YOUR STUDENTS. Try it - using one of the FREE SAMPLE TOPICS (see below). You can also order a **half price copy** of The Idea Guide using the order form on the back of this catalogue.



Idea

Download these FREE SAMPLE TOPICS with permission to use with your students, at www.mathsisjugglers.co.uk :

Y10 Idea : Working with Numbers and Letters (both paper and digital versions)

Y11 Idea : Powers and Efficient Calculator Techniques (both paper and digital versions)

For each Sample Topic you can also download and use Teachers' Notes, Worksheets, Star Challenge Answers, Revision and Assessment.

For example, for the Y10 Idea Topic, download

Y10 Idea Resource Sample.

Half Price Offer

Schools can order single copies of many texts at half price, using the Special Offers Form.

Idea: Custom-built Teachers' Resource & Assessment CDs

Choose how much, or how little, you want on your CD.

Y10A: Basic Resources for Y10 **Pub Price £30**

Y11A: Basic Resources for Y11 **Pub Price £30**

These contain Teachers' Notes, Worksheet Masters, and Star Challenge Answers, (also Student Homework Booklets - one booklet per topic - aimed at low attainers).

OPTIONAL ADD-ONS

Y10B: Interactive material for Y10 **Pub Price £30**

Y11B: Interactive material for Y11 **Pub Price £30**

These contain versions of "WORKING TOGETHER" material (and Revision) suitable for use with Interactive Whiteboards. Each full colour screen has spaces for answers and working, where required. They also contain Star Challenge Answers.

Y10C: Y10 Revision & Assessment **Pub Price £20**

Y11C: Y11 Revision & Assessment **Pub Price £20**

Revision Sheets and Assessments (with Answers) for each topic.

Y10D: Y10 Exam Question Bank **Pub Price £20**

Y11D: Y11 Exam Question Bank **Pub Price £20**

These contain a large bank of GCSE exam-style questions, organised to match the topics in the text - BOTH with spaces (for making up exam papers) AND without spaces (for revision material).

SPECIAL OFFERS

Y10(A + B + C + D) **Pub Price £80**

Y11(A + B + C + D) **Pub Price £80**

Y10&Y11(A + B + C + D) **Pub Price £145**

The 'Maths is ...' Jugglers

Knowledge Skills Understanding

Download these FREE SAMPLE TOPICS with permission to use with your students, at www.mathsisjugglers.co.uk

- Y10 Spoton : Analysing Statistics
- Y11 Spoton : Algebra - Towards A-Level
- Y10 Ruff : Coordinates, Shapes and Transformations
- Y11 Ruff : How Likely Is It ?
- Y10 Sureshot : Measurement in Action
- Y11 Sureshot : Developing Efficient Non-Calculator Techniques
- Y10 Idea : Working with Numbers and Letters
- Y11 Idea : Powers and Efficient Calculator Techniques

For each Sample Topic, you can also download and use Teachers' Notes, Worksheets, Star Challenge Answers (Idea & Sureshot only), Revision and Assessment.

For example, for the Y10 Spoton Topic, download Y10 Spoton Resource Sample.

Optional Teachers' COPYMASTER Resource & Assessment Packs

The wirebound packs contain:

- Teachers' Guide (plus a few answers)
- Worksheet masters
- Star Challenge Answers (Sureshot only)
- End of topic Revision Sheets
- End of topic Assessments
- Revision and Assessment Answers

The CDs contain:

- the contents of the wirebound packs plus
- a large bank of exam-style revision questions, organised to match the topics in the text (both with spaces for making up exam papers and without spaces for revision material)

Y10 Ruff (wirebound): £30

Y11 Ruff (wirebound): £30

Y10 Sureshot (wirebound): £30

Y11 Sureshot (wirebound): £30

Y10 Spoton (wirebound): £40

Y10 Spoton CD: £50

Y11 Spoton (wirebound): £40

Y11 Spoton CD: £50

The Spoton Guide to GCSE Mathematics

by Barbara Young



Pub Price £13 for each text

The **GCSE HIGHER COURSE** that

- can be used as a teacher-led course, or a self-study course (for able students) or a mixture of the two.
- contains interesting and highly accessible mathematics which **motivates students to aim for an A-grade**.
- encourages **able students** to tackle interesting, and often unusual, **extension problems** which are related to the topic.
- **motivates students to go on to A-Level Mathematics**.
- delivers students who are **well-prepared for A-Level**.

These highly successful GCSE texts were developed by the author in the classroom.

- Students and teachers enjoy working with this material.
- They develop each topic step-by-step – just like any good teacher.
- The mathematics is rigorous, clear and fully explained.

New Higher Syllabus material at D grade level

The Spoton texts already cover most of the material at D grade level that is required for the new Higher GCSE Syllabus. However, each school purchasing Spoton texts is provided with a small package that contains:

- a list of all the D grade items
- a match of most of these items to the Spoton texts
- photocopiable material from our Intermediate texts for the few items that are not covered

Schools who are already working with Spoton texts will be able to download this package free from our website.

The Ruff Guide to GCSE Mathematics

by Barbara Young



This **GCSE INTERMEDIATE COURSE** (Grades E–B), that has helped so many students improve their GCSE prospects, is still in use in many schools. Ideal for students who are aiming for grades E-C, it is a simple matter to leave out the Grade B material.

A list of items at Grade B, in the Ruff Guides, can be downloaded from our website www.mathsisjugglers.co.uk

Pub Price £10 for each text



Ruff

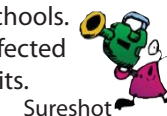
The Sureshot Guide **EXTRA** to GCSE Mathematics

by Barbara Young and Bob Percival



This **GCSE FOUNDATION COURSE** (Grades G-D), was developed with low attainers in the authors' schools and then trialled in a wider variety of schools. It has been highly successful with disaffected students and those in Pupil Referral Units.

Pub Price £10 for each text



Sureshot

There is much more information about Ruff and Sureshot, including sample problems, on the Jugglers' website:

www.mathsisjugglers.co.uk

Half Price Offer

Schools can order single copies of many texts at half price, using the Special Offers Form.

KS3 COPYMASTER Mental Assault Course



Pub Price £20

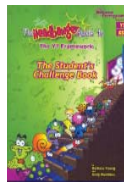
- A structured rolling **COPYMASTER** Mental Arithmetic Course for KS3 ...
- ... that satisfies the National Curriculum for Mathematics
 - ... that delivers all the mental arithmetic techniques in The Primary Framework of the National Numeracy Strategy and the Framework for KS3
 - ... that can be used in the '3-part mathematics lessons'

Download these FREE SAMPLES with permission to use with your students:
 Y7 Student's Challenge Book : Number Patterns Challenges and Answers
 KS3 Mental Assault Course : Samples from various parts of the COPYMASTER Pack

STRETCH YOUR BRIGHT Y7 STUDENTS

with a book of motivating puzzles and challenges, arranged in topics.

It was put together for use with students who are using Y7 Big Edd or Y7 Headbanger but it can also be used in any school which teaches maths in topics – or given to able students to work on in their own time.



The Y7 Student's Challenge Book

- It is intended for use at home and homeworks can be set from it. **£3.50**
- It contains the **200 High Level Challenges** from Big Edd and Headbanger. Students can work on these puzzles and problems whenever they wish to.
- It includes many of the **Star Challenges** from the ends of sections. This extends the range of this text as a homework book to a much wider range of students.

The **High Level Challenges** were first used in the highly successful predecessor to Headbanger, the Big Edd Guide.
 At Tarporley High School, students in **our two top sets** loved them. Almost all top set students did every High Level Challenge. Many completed all 152 of them before the end of the year, and came back and asked for more. (So there are now 200 in Headbanger.)
 But, unexpectedly, many of the students in **our two second sets** tackled a lot of these problems with great enthusiasm. These students had successes with puzzles and problems that we had thought well beyond them. Confidence and motivation soared and, later, so did exam results.
 Many other schools using Big Edd and Fission report similar experiences.

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