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MATHEMATICS RESOURCES

Cuisenaire Resource Pack

FREE CUISENAIRE RESOURCE
when you sign up to e-news
www.atm.org.uk/enews

2018–2019 CATALOGUE
www.atm.org.uk
On teaching and learning mathematics with awareness

The ATM Science of Education Working Group

How do you teach mathematics so your students will learn?

A fantastic book with prompts and reflections on how mathematics teaching can occasion awareness on the part of both the student and the teacher.

The book contains 110 pages full of discussion, articles, classroom ready tasks and insights that are related to a range of images and visions for how mathematics lessons can be spaces where creative and independent work takes place.


BOOK £12.00 members
List £16.00 www.atm.org.uk/shop/ACT112

Coming soon!
SMILE with Us:
Personal recollections of the Secondary Mathematics Independent Learning Experience from 1972 to today
Ray Gibbons
Edited by Hilary Povey, Alison Clark-Wilson and John Hibbs.

The SMILE project fostered independence and creativity in both teachers and pupils and tackled head-on issues of inequity and prejudice . . .
The result was a set of classroom resources still regarded as amongst the best to be found.
This book is the story of the SMILE project, told by Ray Gibbons and others — a story of teacher and pupil empowerment — supported and encouraged by a trusting local education authority.
As teachers grapple with current maths policy and its emphasis on ability thinking and teacher-led whole-class work, this book offers another view of how to provide rich mathematical experiences for all learners of all dispositions.
The book includes references to many of the SMILE materials which are still relevant in today’s busy classroom and are freely available on STEM Learning archive.

Variation in mathematics: A collection of writings from ATM Mathematics Teaching
Edited by Anne Watson

The word ‘variation’ has become a new buzzword for mathematics teachers, but it is not a new idea. Variation is embedded in mathematics. It is an old idea that pops up again and again when people think deeply about the teaching and learning of mathematics. This book is for anyone involved in teaching mathematics, at whatever level, and grounds current ideas in the wisdom and experience of four decades of ATM.
It is a collection of writing originally published in Mathematics Teaching (the journal of the ATM), organised into five sections, each focusing on how teaching shapes experience:
• Points of view
• Experiencing structure
• Reasoning from examples
• Teaching that depends on variation
• Freedom to create

BOOK £10.50 members
List £14.00 www.atm.org.uk/shop/REA027

Variation in mathematics: A collection of writings from ATM Mathematics Teaching
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• Experiencing structure
• Reasoning from examples
• Teaching that depends on variation
• Freedom to create

BOOK £10.50 members
List £14.00 www.atm.org.uk/shop/REA027
Thinking mathematically every day - Y3
Number, Geometry and Statistics

ATM/MA primary group
Viv Townsend - Collator
Heather Davis - Editor

A5 colour book, aimed at children in Year 3. The book includes tasks on Number, Geometry and Statistics that have been written to inspire teachers to embed reasoning, problem solving and conceptual fluency in to all their lessons. These are mapped to the programme of study for the Y3 year group.

Ideas and prompts are given for promoting conceptual understanding as well as reasoning and problem solving.

Whether you choose to focus on developing understanding, reasoning or problem solving at that particular moment, development in all three areas of learning will inevitably occur.

This is the first of a series of KS2 booklets – one for each year group. Keep watching for year 4, 5 and 6. There will also be a KS1 set to follow!

Number Without a Worksheet

A collection of ideas of core number activities to encourage children to think mathematically. Each idea includes: suggestions for developing ideas, extensions, simplifications, and resources list.

BOOK £9.00 members
List £12.00 www.atm.org.uk/shop/act052
Shape and Space Without a Worksheet

A second set of activities to encourage children to think mathematically without resorting to worksheets. Included are simplifications, suggestions and resource lists for developing ideas on shape and space.

BOOK £9.00 members
List £12.00 www.atm.org.uk/shop/act063

Exploring Mathematics with Younger Children e-book

Edited By Christine Mitchell and Helen Williams.

EXPLORING MATHEMATICS WITH YOUNGER CHILDREN is an updated re-issue of a collection of starting points that focuses on classroom interactions in order to develop children’s mathematical thinking and encourage teacher-creativity.

This inspiring publication offers the opportunity for EYFS/KS 1 children to solve or invent problems; to share their reasoning and to rehearse their knowledge and understanding of mathematical ideas in small groups, pairs or trios.

It is full of challenging, yet practical maths tasks and engaging problems.
**Little People – Big Maths**

**Jenny Shaw, Emma Howell, Alan Bloomfield**

A collection of practical activities suitable for foundation and key stage 1 children working together which can be adapted for different age groups. The activities are designed to be fun and enable children to develop their mathematical understanding in non-threatening situations.

**BOOK** £10.50 members  
List £14.00  www.atm.org.uk/shop/act076

**e-book** £5.25 members  
List £7.00  www.atm.org.uk/shop/DNL117

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**Pick and Mix**

Mathematical Challenges for a KS2 classroom

**BOOK & DOWNLOAD** £7.50 members  
List £10.00  www.atm.org.uk/shop/ACT105pk

**BOOK ONLY** £5.25 members  
List £7.00  www.atm.org.uk/shop/ACT105

**e-book** £3.75 members  
List £5.00  www.atm.org.uk/shop/DNL130
**Pick and Mix — Mathematical Challenges for a KS2 classroom**

Mike Ollerton

This is a collection of challenges that will engage learners at KS2 in mathematical reasoning and problem solving. Organised by mathematical topic there are some golden oldies and fascinating new puzzles to excite your learners. This book provides around 100 tasks that develop fluency with number, algebra and geometry together with the independent thinking required for problem solving.

**A set of 79 whiteboard slides** accompanies the e-book and download

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**Challenge Activities**

**Intriguing problems for pairs working together**

Jenny Murray

Each downloadable pack contains between 10 & 12 photocopiable activities that promote problem solving skills for children working independently or in groups.

Packs contain copies of both black and white and colour cards for easy printing.

They have been designed for differing age groups, but they can also be used by both older and younger groups according to ability.

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**Pick and Mix — Mathematical Challenges for a KS2 classroom**

Using white and/or red rods only here are some ways of making the same length as yellow:

How many more ways can you find?

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**KS2**

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**KS3**
Thinking for Ourselves
Jill Mansergh and Margaret Jones

Aimed at primary and early years teachers. This book is presented in three sections and provides a variety of contexts in which students are encouraged to think for themselves; whilst encouraging them to respond to a variety of situations, including:

- Mathematical statements
- Longer problem solving activities
- Pictorial resources
- Encourages children to respond with their own ideas, and questions and provide reasons for their responses
- Promotes reasoning and problem solving, within interesting contexts.

BOOK £10.50 members
List £14.00 www.atm.org.uk/shop/dis019
**It Makes You Think**
**Mathematical Puzzles and Problems**

Jill Mansergh

A selection of activities to encourage students to think, by themselves, with a partner, in a group or as a class.

This photocopiable book comes with a PDF of resources to use alongside the problems.

Topics covered include:

- Working with a variety of shape cards.
- Activities for questioning by the teacher in a mental oral starter or by children challenging each other with questions.
- Collaborative problem solving activities with accompanying resources to use alongside the problems.
- Ideas to encourage children to reason and to articulate their reasoning.

Additional resources are available on the accompanying PDF document.

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**Cuisenaire - from Early Years to Adult**

Mike Ollerton, Helen Williams and Simon Gregg

Whether you work with young children or older learners the use of practical materials is fundamental to developing conceptual understanding.

Cuisenaire rods predate the bar model by several decades and are the concrete model that underpins bar modelling. The book illustrates how you can use Cuisenaire rods with your learners, whatever age they may be. The diagrams give the detail of how the mathematical concepts are represented while the photos give authenticity, showing them being used by learners.

**A set of 35+ whiteboard slides** accompanies the book to help you transform your learners’ understanding of the structure of number and calculation, and focus on what is being learnt.

Use the ideas to deepen the understanding of your learners so they can master the structure of the number system.
We Can Work It Out!
Collaborative Problem Solving for the Mathematics Classroom
Anitra Vickery and Mike Spooner

Collaborative Problem Solving for the Mathematics Classroom – a photocopiable book containing 25 sets of group problem-solving cards, each containing clues needed to solve a problem as well as some red herrings.

BOOK £16.50 members
List £22.00 www.atm.org.uk/shop/act054
e-book £8.25 members
List £11.00 www.atm.org.uk/shop/DNL073

We Can Work It Out 2
Anitra Vickery and Mike Spooner

More collaborative Problem Solving for the Mathematics Classroom – following the popularity of Book 1, some more problem solving activities to challenge and develop reasoning in your classroom.

BOOK £16.50 members
List £22.00 www.atm.org.uk/shop/act084
e-book £8.25 members
List £11.00 www.atm.org.uk/shop/DNL072
Assessment in the New National Curriculum - an ATM Perspective

Barbara Ball, Anne Crosby, Jocelyn D’Arcy, Heather Davis, Jackie Fairchild, Anne Haworth, Mike Ollerton, Sue Pope and Katherine Pyke

This collection of tasks illustrates how a teacher can use ordinary classroom practice as the basis for assessment.

It will support the busy teacher wanting to assess reasoning and problem solving as well as content in the mathematics curriculum.

The approach taken may be applied to any task, so this resource will be valuable for groups of teachers who wish to develop rigorous assessment practice that supports progress and recognises achievement.

54 page book and colour PDF download plus additional slides for classroom use.

Learning Mathematics with Origami

Tung Ken Lam and Sue Pope

This book draws on the authors’ substantial experience of using origami in UK classrooms and is designed to support you using origami when teaching mathematics.

The book offers practical advice on how to use origami with learners while offering opportunities to think creatively; justify decisions and opinions and deepen understanding. The book includes starting points for many different topics, allowing learners to take responsibility for their own learning, explore areas of interest creatively and work collaboratively with others.

Topics include: Simple fractions; Properties of 2D and 3D shapes; Angles and angle relationships; Tessellations and tiling patterns

PDF version includes slides for classroom use.
Geometry Games
Gillian Hatch
A collection of Geometry Games that can be played with the whole class or in small groups, keeping pupils engaged while working mentally in an interesting and challenging way. Topics include angles, triangles, quadrilaterals and polygons.

BOOK £16.50 members
List £22.00 www.atm.org.uk/shop/act061

e-book £8.25 members
List £11.00 www.atm.org.uk/shop/DNL027

What kind of game is Algebra
Gillian Hatch
A collection of more than 50 photocopiable algebra games. Suitable for whole class and collaborative group work, the activities will challenge pupils thinking and problem solving skills.

BOOK £16.50 members
List £22.00 www.atm.org.uk/shop/act055

e-book £8.25 members
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Talking Maths
Association of Teachers of Mathematics
Tasks to stimulate rich mathematical talk in the classroom

BOOK & DOWNLOAD £13.50 members
List £18.00 www.atm.org.uk/shop/act097pk

e-book £6.75 members
List £9.00 www.atm.org.uk/shop/DNL112
Talking Maths
Tasks to stimulate rich mathematical talk in the classroom
Richard Perrin

This book is designed to promote discussion while learners test, clarify and develop their understanding of mathematics.

Each activity contains three types of task:
Always, Sometimes, Never
Multiple representations
Mysteries

There are examples for nine key areas of mathematics that could provide 27 lessons worth of tasks while promoting discussion, understanding, confidence and independence in learners.

The book is accompanied by a PDF containing the full sized activity cards to print and use.

Rich Task Maths 1
Engaging mathematics for all learners
www.atm.org.uk/shop/act078pk

Rich Task Maths 2
Engaging mathematics for all learners
www.atm.org.uk/shop/act079pk

Barbara Ball and Derek Ball

Both books contain a collection of mathematical tasks based on the successful Task Maths series that help the learner to develop and extend knowledge and understanding while working on accessible and engaging tasks.

The tasks include activities on reasoning and problem solving while going deeper and challenging the learners, as well as offering hints about how to tackle the them.

Each book includes an accompanying PDF containing an interactive colour version of the book for use in the classroom as well as spreadsheet files for some of the tasks.

EACH £16.50 members
List £22.00
Exploring Area and Fractions with Square Geoboards  Geoff Faux

This book contains tasks that develop a deep conceptual understanding of area and fractions. They naturally stray into geometry demonstrating the rich inter-connectedness of mathematics, while developing their understanding, reasoning and problem solving skills. This 76 page book is accompanied by a PDF containing whiteboard slides with questions to explore in the classroom, plus 4 mini whiteboards with a 3 x 3 geoboard.

PACK £16.50 members
List £22.00 www.atm.org.uk/shop/act095pk

e-book £8.25 members
List £11.00 www.atm.org.uk/shop/DNL107

Exploring Geometry with a 9-Pin Circular Geoboard  Geoff Faux

A brilliant book to introduce your students to geometric reasoning. The ideas encourage problem solving while covering many areas of mathematics including angles, geometry, Proof, justifying and reasoning. The book is accompanied by a PDF containing 100+ whiteboard slides with images and questions for use in the classroom. Plus a clear 9-pin Geoboard.

PACK £16.50 members
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e-book £8.25 members
List £11.00 www.atm.org.uk/shop/DNL098

BOOK £10.50 members
List £14.00 www.atm.org.uk/shop/act057

e-book £5.25 members
List £7.00 www.atm.org.uk/shop/DNL127
Questions and Prompts for Mathematical Thinking
Anne Watson & John Mason

Good questioning, by teachers and learners is the key to learning mathematics

A wonderful collection of challenging questions which are designed to tease out structures and concepts at the heart of mathematics.

They present a framework which can be used by teachers to develop their own approaches to topics, broaden their repertoire of styles, explore mathematics.

This best selling book can transform the way mathematics is taught.

Also Available

Primary Questions and Prompts
Margaret Jeffcoat, Margaret Jones, Jill Mansergh John Mason, Heather Sewell, Anne Watson

A best selling book that has been written for teachers working with KS1 and KS2 classes.

Thinkers
Chris Bills, Liz Bills, John Mason and Anne Watson

A fantastic collection of activities that can be integrated into any lesson to provoke and deepen mathematical thinking.

This book includes sixteen different contexts for exemplifying and generalising the processes at the heart of doing mathematics.

There are examples of how teachers can use the techniques for any topic in mathematics.

This ATM Best Seller promotes a classroom culture in which learner-generated examples open a window on mathematics that textbook exercises leave closed.

BOOK £10.50 members
List £14.00 www.atm.org.uk/shop/dis002

e-book £5.25 members
List £7.00 www.atm.org.uk/shop/DNL094
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**Cluster/Chain Membership** – Apply as a group and reduce the cost of your membership. Open to groups of between 5 and 20 schools. Rates start at £50/school.

**Library Affiliation** – Printed + Electronic Journals £220,
Printed Journals only £165, Electronic Journals only £140.

Contact the office for details 01332 977891. Terms and Conditions apply.

**An Institutional member** is categorised as one single Institution. If you are a Chain please join as a Cluster/Chain member. Unauthorized sharing of login details is forbidden.
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Supporting Transition and Progress in Maths Education

I highly recommend this ATM book - a must buy for any maths teachers (and an easy, fun read)
Drew Foster

Gives them the motivation to work through!
Heather Davis

Full of challenging and yet practical maths tasks for KS1 learners - a good source of engaging problems for the classroom.
Helen Williams

Considering that reasoning and problem solving are two of the aims of the curriculum, this is such a valuable resource to dip into to enhance your lessons.
Becky Clinton

This book, I’m reading at the moment, is flipping brilliant! It has loads of activities along the Purposeful Practice/Mathematical Etudes lines.
Craig Barton

An invaluable book that should be in every GCSE maths classroom.
Greg Thomas

EYFS and beyond

KS1

KS2

KS3 and beyond

KS4

KS5

www.atm.org.uk/join
**Eight Days A Week**
Edited by Chris Bills

A collection of puzzles and problems that are a rich source of ideas for KS2 and KS3 classrooms.

Contains eight questions for each week of the year - enough for one-a-day and a bonus. The questions are interesting and make you think about numbers differently than you may have done before whilst appealing to all ages, with or without a mathematical background.

“Anyone teaching mathematics should not be without a copy.”  _Diana Cobden_

**Best Seller**

**BOOK £6.00 members**  
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**e-book £3.00 members**  
List £4.00  [www.atm.org.uk/shop/DNL011](http://www.atm.org.uk/shop/DNL011)

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**Learning and Teaching Mathematics Without a Textbook**  
Mike Ollerton

A collection of investigative and problem solving starting points and extension ideas, all of which have been used in many different classrooms. It offers alternative ways for students to work on mathematics, to the commonly used method of carrying out exercises from a textbook and for teachers to think how they might adapt them into their own practice.

**BOOK £10.50 members**  
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**Everyone is Special**  
Mike Ollerton  
(Learning and Teaching Mathematics 2)

For mathematics teachers across the entire attainment range. Contains ideas, problem solving activities and starting points that can be used in schemes of work across the age ranges.

**BOOK £10.50 members**  
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List £7.00  [www.atm.org.uk/shop/DNL092](http://www.atm.org.uk/shop/DNL092)
**Practising Mathematics**  
Developing the mathematician as well as the mathematics  
Dave Hewitt and Tom Francome  

This book offers a wide selection of ideas for practising the content of the upper primary and secondary mathematics curriculum, whilst developing the reasoning and problem solving skills so vital for success in school and beyond.

It is a fascinating collection of tasks by Dave Hewitt and Tom Francome which contains activities from many areas of the mathematics curriculum including Number work, Ratio and Proportion, Algebra, Geometry, Probability and Statistics.
Preparing for GCSE

Problem solving Developing reasoning through thinking mathematically

Heather Davis, Michael Gibson, James Robinson, Jocelyn D’Arcy, Ben Daniel-Thorpe & Jim Thorpe

Are your students prepared for the problem solving questions in the 9 to 1 GCSE papers? This book has 25 tasks to use in your classroom, with ready prepared whiteboard screens and guidance notes to do just that. Activities are designed to encourage the use of reasoning and creativity while undertaking problem solving tasks.

Some of the problems included appear to be more like examination questions, while others are investigations rather than problems, but all are chosen for their worth in developing the mathematical thinking required to solve problems.

Use it in class, and revision sessions, to practise strategies that can make the difference in the exam.

A set of 100+ whiteboard slides accompanies the book.

Forty Problems for the Classroom Derek Ball

A book of activities for the classroom to help learners of all ages to develop strategies for solving mathematical problems. It also contains hints, prompts and suggestions for further activities. The publication has been designed so that you can photocopy activities to give out to your class.

BOOK £10.50 members
List £14.00 www.atm.org.uk/shop/act050

e-book £5.25 members
List £7.00 www.atm.org.uk/shop/DNL025

Forty Harder Problems for the Classroom Derek Ball

This collection of challenging, non routine mathematical problems, offer opportunities for reasoning and problem solving in the classroom. Aimed at KS3 and above, they help learners to use and apply their mathematical knowledge and skills. All the problems are mathematically interesting and require a bit of flair to solve them. Hints and suggestions for further work are included.

BOOK £10.50 members
List £14.00 www.atm.org.uk/shop/act060

e-book £5.25 members
List £7.00 www.atm.org.uk/shop/DNL026
**Big Ideas**  Christopher Martin
For pupils aged 11-12
This book contains seven modules each including ideas for drawing out concepts in different areas of mathematics and includes ideas, resources and questions to challenge and encourage your learners. The book and accompanying PDF files are packed with sufficient content for an entire year (each module offers the equivalent of, approximately, half a term’s work) and offers a perfect starting point for learners commencing their secondary mathematics journey.

**BOOK & DOWNLOAD  £16.50 members**
List £22.00
www.atm.org.uk/shop/act080pk

**Bigger Ideas**  Christopher Martin
For pupils aged 12-13
The follow up to Big Ideas. This 70 page book is accompanied by a PDF file that has direct links to extra material, and additional information from websites, articles and books which give the reader further food for thought. Areas covered include Algebra, Reasoning and Number work. This high quality resource is easily accessible to both teachers and students.

**BOOK & DOWNLOAD  £16.50 members**
List £22.00
www.atm.org.uk/shop/act096pk
Mathematical Journeys - Departure Points

ATM Working Group

A compilation of the best of the enormously successful Points of Departure series.

It contains starting points for mathematical exploration suitable for a wide range of ages and attainment which can be adapted to any scheme of work.

An excellent resource for problem solving, reasoning and open-ended investigations

Try these:

Why not try pentagons? Or hexagons?

Example illustration from P16

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Mathematics for Every Occasion

Colin Foster

This book gives suggestions for interesting, rich mathematical activities on topical themes occurring throughout the year.

Catering for 21 different occasions, it includes tasks that could be used in each case that require minimal preparation and lead to interesting mathematical possibilities.

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Variety in Mathematics Lessons

Colin Foster

A guide for teachers who wish to offer a greater diversity of experiences to learners in their school mathematics lessons.

Fourteen different models of mathematics lesson are described, alongside concrete examples of how they can be implemented within core curriculum topics.

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Teaching Mathematics for Social Justice
Meaningful projects for the secondary mathematics classroom
Pete Wright

This full-colour book is aimed at teachers of mathematics who are interested in addressing issues of social justice in their classrooms.

It proposes an alternative approach to teaching mathematics that encompasses collaborative problem-solving, promoting discussion and engagement.

The book includes:

- Seven projects addressing issues of social justice in the mathematics classroom
- Twenty student task sheets
- Teachers’ notes offering support for developing classroom practice
- Research articles exploring the theories underlying the teaching ideas.
Find all positive integer solutions of the inequality $3x - 6 < 9$.

I think $x$ can only be 1.
**Functioning Mathematically**

Barbara Ball, Derek Ball & Mike Ollerton

A collection of mathematical activities which will help learners to develop the skills and confidence to apply, combine and adapt their mathematical knowledge to new situations in their life and work.

Functioning Mathematically will challenge learners to think for themselves and encourage learners to be actively involved in their mathematics.

It includes 37 different activities and commentaries, and includes teacher and student pages.
The Proving Ground – an introduction to mathematical proof e-book

Jonny Griffiths

This extensive resource is full of problem solving challenges covering many areas of mathematics, and offers a brilliant introduction to mathematical proof.

Each problem comes in three levels; Level 1 should be possible for most, Level 2 will be trickier, and Level 3 comes with no promises over difficulty. Why? Because twenty of the problems have been solved, but twenty haven’t - not even by the best mathematical brains on the planet.

It contains pages that are connected by hyperlinks meaning there is the opportunity to access around 400 pages.

Aimed at A Level students, but also suitable for university students, ambitious younger learners, or indeed more general puzzlers who like a major challenge.

Proof in Elementary Geometry

Making Sense of Mathematics

Geoff Giles

The concept of proof is a vital part of what mathematics is all about and in this book, the author claims that ‘seeing is believing’ and using powerful images to provide convincing reasons for the truth of many theorems in geometry.

Students are more concerned with memorising proof rather than being convinced by them.

Using a ‘tracing’ on top of a ‘diagram’ we can often show clearly the truth of assertion.

In other words: we can prove it.

Persuasive words and pictures are used to put the case, rather than strict logical arguments. The aim is to convince, rather than to prove.
Ideas for Sixth-Form Mathematics

Pure Mathematics and Statistics

Further Pure Mathematics and Mechanics

Colin Foster

These books offer a wealth of innovative lesson ideas for important areas of post-16 mathematics teaching, bringing variety to the curriculum areas within AS/A2 mathematics and IB. The material is arranged by topic and enables teachers to move away from an over-emphasis on routine textbook-based work. Hints and suggestions are included to make it clear where the ideas may lead as well as additional material for extension.

Pure Mathematics and Statistics

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e-book £6.75 members
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Further Pure Mathematics and Mechanics

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List £18.00 www.atm.org.uk/shop/act091

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Grid Algebra  CD + booklet  Dave Hewitt

A visual and kinaesthetic way to learn about number and algebra, & pre-algebra. Learners build links between numeric and algebraic expressions and numbers and physical movements around a grid. Grid Algebra helps learners with reading and writing formal numeric or algebraic expressions, finding equivalent expressions, substitution, simplifying expressions and solving equations. It includes: lesson ideas with prepared grids and worksheets.

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SITE LICENCE  £135.00 members
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Animating Geometry
Dietmar Küchemann

A series of geometrical problems with the potential to be solved in a variety of ways. In addition to the tasks and electronic resources the author has provided a narrative for each task. This supports teachers in working through the tasks themselves to develop an understanding of the geometric content, and of how transformation geometry can be used to illuminate the content.

e-book  £6.75 members
List £9.00  www.atm.org.uk/shop/DNL102
2-D & 3-D OPPORTUNITIES FOR GEOMETRICAL EXPLORATION

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3 Professional development — the Annual Easter Conference offers high quality, nationally recognised CPD with great networking opportunities, and significant discounts for members.

4 Fantastic classroom resources — all members get a 25% discount on the full range of ATM resources and materials.
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Mathematics Teaching (MT) – the journal of the ATM

MT is a space to share investigations into teaching. It aims to honour the different ways that people know, do and engage with mathematics. Readers can try things out but also reflect on the experiences of others and of different teaching and learning styles. MT aims to give teachers confidence to use ideas which are current and relevant to them. We believe everyone has experiences and insights to share.

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5 Informed and up to date – members receive regular ATM e-news containing current news and activities.

6 ‘My ATM’ – access to a members’ area of the web site, including the fantastic online back catalogue of articles and links to interactive resources and downloads.

7 Local networking opportunities – a network of local branches offering regular meetings.

8 Value for money – tax deductible subscriptions for personal members.

9 Accreditation – ATM, as a representative of the Chartered Mathematics Teacher Registration Authority, is proud to offer members the opportunity to apply for the CMathTeach Designation.

10 Influence and having a voice – eligibility to vote on resolutions that shape the direction of ATM.
Welcome to the 2018/2019 catalogue

ATM resources are designed to encourage a questioning approach, to draw out reasoning – to deepen understanding. You can rely on a wealth of ideas to promote engagement, discussion and thinking deeply for learners and teachers.

New publications such as ‘Practising Mathematics’ support secondary learners with purposeful practice. ‘Variation in Mathematics’ offers teachers a range of articles to inform their understanding and reflect on this key mathematical idea. ‘On Teaching and Learning Mathematics with Awareness’ written by distinguished mathematics educators includes classroom activities as well as discussion of how these have been used successfully. Look out for mathematical games, more on GCSE problems, supporting learners with multiplication, and more for EYFS/primary later in the year.

Sandie Blakesley

Chesford Grange, Warwick | 15-18 April

www.atm.org.uk/Maths-teacher-conference

Plenary Speakers
Caroline Ainsworth & Colin Foster

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