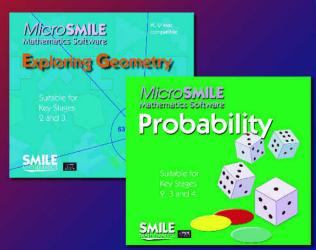
SMILE Mathematics MicroSMILE software and printed resources

Suitable for Key Stages 2, 3, 4 and beyond







Welcome to the SMILE Mathematics complete catalogue 2004. This year, we have combined our software and printed resources in one catalogue to make it easier for you to evaluate our wide range of products and training provision.

> "SMILE can always be relied upon to produce exciting new software." TES

We have four new software packs for 2004: Exploring Geometry (page 10) consists of fifteen short programs introducing and developing geometrical concepts. We are also launching new versions of our popular Properties of Number (page 6), Co-ordinates (page 11) and Mathematical Puzzles (page 14), all of which have enhanced interactivity and graphics. Support materials are included in all our software packs.

Additional information on our software resources is available to download from our website as an interactive document called 'MicroSMILE Software Information'. This document includes brief descriptions of the programs in each pack as well as overviews of our complete range of software by pack, topic area and by National Curriculum level.

> "...useful resources for busy classroom teachers..." Primary Maths and Science

We've also developed a new interactive resource for 2004.

Discussing Data (page 9), includes a CD ROM and activity book to develop students' data handling skills. The activities are ideal for use as lesson starters or plenaries to introduce or support data handling projects.

The SMILE team is delighted to be able to continue to support teachers' professional development by extending our training provision, details of which can be found on page 25.

"The SMILE team has a long pedigree of producing highquality, challenging and motivating software to support the learning of mathematics." MicroMath

SMILE Mathematics is committed to producing high quality resources that are clearly focused on mathematical content and that provide a stimulating learning experience for students. We would be delighted to receive your feedback about our products or any ideas for future resources: please email your comments to us at: info@smilemathematics.co.uk.

SMILE Mathematics is a Registered Retailer with Curriculum Online.



All products that display this Curriculum Online symbol are eligible for purchase with eLearning credits.

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Number

Numeracy v 1.00

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AddsUpTo allows students to apply their knowledge of number bonds up to 19. A number of strategies can be used. (N.C. Level 3–5)

Darts simulates a darts game with students completing all the necessary mental calculations. *(N.C. Level 3–4)*

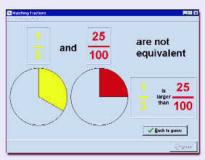
Magic challenges students to unscramble magic squares with the numbers swapped. In order to do this students will need to add and subtract numbers mentally. There is also the facility to make their own magic squares. (N.C. Level 3–6)

Matching Fractions challenges students to collect sets of equivalent fractions. In order to do this they will need to devise strategies for recognising equivalent fractions in their numerical form. Visual support is provided for students who find this difficult. (N.C. Level 4–5)

NumberLines provides students with opportunities to develop their estimation skills and strategies. Informal mental use of addition, subtraction, ratio, etc. can also be expected. (N.C. Level 2–5)

NumberLinesD is a variation on NumberLines which involves decimals. There are 4 levels of difficulty. Level 4 is very challenging. (N.C. Level 4–6)

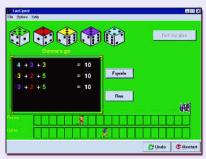
Ordering Fractions helps develop students' understanding and ability to order fractions by size. Visual support is provided for those students who find this difficult. (N.C. Level 5–6) System Requirements: Windows 95, 98, 2000, NT or XP.



Matching Fractions

Tenners provides practice at multiplying and dividing by 10, 100 and 1000. This is followed by a game which challenges them to use this skill and other strategies. (N.C. Level 5–6)

Tensprint provides reinforcement of number bonds of 10. Students are involved in a 200m race in which they move forward by making tens from a selection of dice. (N.C. Level 1–3)



Tensprint

Fractions, Decimals, Equivalence & Number Playing Cards

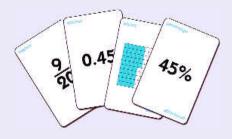
These four packs of playing cards help pupils to develop their fluency with fractions, decimals and percentages. The Fraction and Decimal packs contain 52 cards which represent 13 different fractions/decimals written in 4 ways. The Equivalence pack contains 52 cards which represent 13 different numbers written as a fraction, decimal, percentage and a picture. The Number pack is an invaluable resource for use in any mathematics classroom. Excellent for CountDown type activities. Suggested games are included with the packs.

Suitable for Key Stages 2 & 3.

Fraction Playing Cards

Cost: £3.50 + £0.61 VAT

Equivalence Playing Cards



Cost: £3.50 + £0.61 VAT

Decimal Playing Cards



Cost: £3.50 + £0.61 VAT

Number Playing Cards



Cost: £3.50 + £0.61 VAT

Ratio v 1.02

Money Share helps students decide which ratios can be used to divide a given number of coins. (*N.C. Level 4–5*)

Paint Mix is a game in which students mix two colours of paint in a target ratio. (N.C. Level 5–6)

Ratio Buster provides students with practice in answering various ratio problems in context. (N.C. Level 5–6)

Ratio Match is a 3 in-a-line game in which students identify shapes divided in a given ratio. (*N.C. Level 4–5*)

System Requirements: Windows 95, 98, 2000, NT or XP

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The Ratio CD includes additional classroom support materials to encourage collaborative learning.

Enriching Number v 1.0

Equivalent Pairs is a matching game that helps students to recognise the equivalence between fractions, decimals and percentages. (N.C. Level 4–5)

Make That Number focuses on finding fractions, decimals and percentages of given amounts. The context is a 3-in-a-line game with students able to play against each other or the computer. (*N.C. Level* 5–6)

Maximum Remainder is a game focusing on mental division. (N.C. Level 4–6)

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Make That Number

4

Number



Ratio Match

Number

The Makes Sense Series

Each A4 book within the series focuses on a different mathematics topic. The activities are appropriate for a range of learning styles.

- Fully photocopiable
- · Comprehensive teachers' notes
- Easily incorporated into any scheme of work
- Ideal for whole class differentiated topic work

Ratio Makes Sense

12 differentiated activities covering NC levels 4 to 7. Suitable for Key Stages 2, 3 & 4 Cost: £15.00

Spreadsheets Make Sense

21 differentiated activities covering NC levels 4 to Exceptional Performance. Suitable for Key Stages 2, 3 & 4 **Cost: £15.00**

Multiplication Makes Sense

15 differentiated activities covering NC levels 2 to 6. Suitable for Key Stages 2 & 3 Cost: £15.00

Multiplication Table Booklets. (Free with Multiplication Makes Sense while stocks last)





"Smile Mathematics Makes Sense Series provides useful resources for busy classroom teachers" Primary Maths and Science

Fractions, Decimals and Percentages Make Sense

Volume 1

13 differentiated activities covering NC levels 2 to 4. Suitable for Key Stages 2 & 3 Cost: £15.00

Volume 2

19 differentiated activities covering NC levels 5 to 7. Suitable for Key Stages 2, 3 & 4 **Cost:** £15.00

Number

Properties of Number v 3.0

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Six programs with a focus on positive integers:

Numbers is a resource program which allows students to explore sequences displayed on grids of varying size. The sequences include even, odd, triangle, prime, square and cube numbers, multiples, factors and powers. *(N.C. Level 3 onwards)*

Multiples is a variation of Numbers with a focus on multiples. (N.C. Level 4 onwards)

Factors is a variation of Numbers with a focus on factors. (*N.C. Level 4 onwards*)

Sense of Number v 1.0



BOX helps students develop an understanding and confidence with place value by ordering two and three digit numbers. (N.C. Level 2–3)

BoxD is a variation on Box which introduces numbers to three decimal places. (N.C. Level 4–5)

BoxN is a variation on Box which introduces negative numbers. (*N.C. Level 4–5*)

Guess helps students develop an understanding and confidence with place value by finding a mystery two or three digit number. (N.C. Level 2–3)

GuessD is a variation on Guess which includes decimal places. (N.C. Level 3–4)

GuessN is a variation on Guess which includes negative numbers. (N.C. Level 4–5)

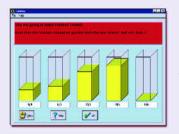
System Requirements:

Windows 95, 98, 2000, NT or XP.

Define challenges students to define a number uniquely by selecting from a list of statements involving number properties. *(N.C. Level 5-6)*

Identify challenges students to identify a number by selecting from a list of questions involving number properties. (N.C. Level 5-6)

Factor Challenge is a game against the computer which develops students' understanding of factors. (N.C. Level 5-7)



Towers

Magnify uses continual zooming in on the number line to help develop students' appreciation of decimal notation and place value. (N.C. Level 4–5)

Minimax encourages students to explore the effects of large and small digits on the four operations; addition, subtraction, multiplication and division. (N.C. Level 3–4)

Towers challenges students to order fractions between upper and lower bounds. (N.C. Level 5–6)

Wall challenges students to accurately build a fraction wall. (N.C. Level 3–4)



Calculating

This A5 24 page book is crammed full of activities to challenge students when using a calculator. Suitable for Key Stages 2, 3 & 4. **Cost: £3.50**

Calculating

Multiplication Jigsaw

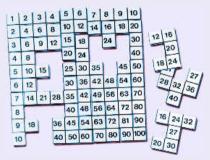
This challenging puzzle will encourage students to recognise and explore patterns within a multiplication square. The task is to assemble the nineteen pieces to make a multiplication square.

Suitable for Key Stage 2. Cost: £4.00 + £0.70 VAT

Hundred Fit

This double-sided puzzle is based upon two different arrangements of the numbers 1 to 100, using two different rules, to form a 10×10 square. Students are challenged to find the rules for how the patterns of numbers have been generated. They then use these rules to extend the pattern and complete the puzzle.

Suitable for Key Stages 2 & 3. Cost: £3.50 + £0.61 VAT



Multiplication Jigsaw



Hundred Fit

Data Handling

Probability v 1.0

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Hidden Contents challenges students to identify the contents of a bag containing coloured balls using experimental probability. (N.C. Level 5–6)

Loaded Dice challenges students to identify which of two dice has been loaded to make it biased. (N.C. Level 5–6)

Pinball is a resource program which allows students to simulate an experiment. Students compare the distribution of the balls with theoretical probabilities. (N.C. Level 4 onwards)

Probability Match is a game in which students identify cards which match a given probability. (N.C. Level 4–6)

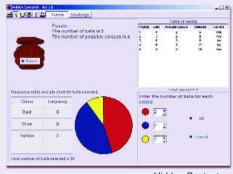
Routes is a resource program which allows students to simulate an experiment. Students compare the distribution of the balls with combined probability events. (N.C. Level 5 onwards)

Probability Match - Ver 1				×
			Sam+Irene Round	Board 6 points 4
	• •	••	Select as many ca which show count probability below.	ds as you can ers matching the
			Probability of pic a blue counter =	ing <u>3</u> 4
			Information Well done Sam+Irene, y found 2 correct cards. Yr points. There were 3 correct car altogether.	ou score 2 🔹 OK

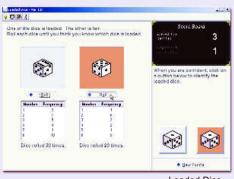
Probability Match

System Requirements:

Windows 95, 98, 2000, NT or XP.



Hidden Contents



Loaded Dice

Data Handling

Real Data

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This pack consists of a book with six projects and photocopiable student resources, and a CD containing complete, real, relevant and easy to use data files. Also included on the CD is a searchable Handling Data Reference file, giving immediate guidance on relevant terms and techniques. The themes of the six projects are Average Student, Environment, Fast Hand, Sport, Transport and World Statistics and within each there are six levelled hypotheses enabling teachers to develop a differentiated approach. Ideal for professional development.

Suitable for Key Stages 3 & 4 Cost: £50 + £8.75 VAT

Discussing Data

This pack is made up of an interactive CD ROM and accompanying activity book. The activities in both have been specifically designed to be used for whole class teaching at Key Stage 3 to develop students' data handling skills, particularly analysing and interpreting data, through discussion.

The CD contains eight interactive Excel files, eighteen full colour versions of the graphs or diagrams accompanying each activity in the book and a searchable Handling Data Reference file. The activity book contains eighteen activities with comprehensive teachers' notes and eighteen student resource sheets.

Suitable for Key Stages 3 & 4 Cost: £30 + £5.25 VAT



Includes CD ROM

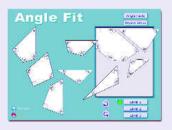


Shape, Space & Measures

Exploring Geometry v 1.0 Fifteen short programs introducing and developing geometrical concepts.

These programs can be used flexibly in the classroom, either as lesson starters, main activities, plenary sessions or consolidation. They are particularly suited for use with data projectors and interactive whiteboards.

Angle Fit consolidates the angle sum of triangles, quadrilaterals, angle on a straight line and about a point. (N.C. Level 4)



Building Pentominoes is a challenge to find all the pentominoes. (N.C. Level 4)

Enlarging Pentominoes explores enlargement. (N.C. Level 5–6)

Polygon Names consolidates properties of polygons. (N.C. Level 4–5)

Quadrilateral Names consolidates properties of quadrilaterals. (N.C. Level 4–5)

Rotational Symmetry is an introduction to this topic. (N.C. Level 4)

Shape Names consolidates properties of a variety of shapes. (N.C. Level 4–5)



System Requirements:

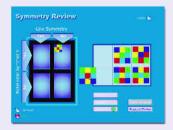
Windows 95, 98, 2000, NT or XP. Mac OS 8.6 to 9.xx, OSX 10.1 or later

Similar Triangles is an introduction to similarity. (N.C. Level 5)

Square Jigsaw is a challenge in spatial reasoning. (N.C. Level 7)

Symmetry Match is an introduction to line symmetry. (N.C. Level 3–4)

Symmetry Review consolidates line and rotational symmetry. (N.C. Level 5–6)



Tessellating Pentominoes explores regular and irregular tessellation. (N.C. Level 5)

Wiggly Tessellations demonstrates how to create an irregular shape which will tessellate. (N.C. Level 4)

2D Quiz reviews two dimensional geometry. (N.C. Level 4–7)

3D Quiz reviews three dimensional geometry. (N.C. Level 4–7)

MicroSMILE Software Shape, Space & Measures

Co-ordinates v 3.0



System Requirements:

Windows 95, 98, 2000. NT or XP.

3 in a Line is a strategy game which involves moving counters using co-ordinates to determine position. (N.C. Level 3-4)

Elephant develops an understanding of co-ordinates in one or all four quadrants. It can be used as an introduction to the concept of loci or as an intuitive introduction to Pythagoras' Theorem. (N.C. Level 5-6)

Lines is a strategy game where students use co-ordinates to place counters on a grid. They win if they place four in a line horizontally, vertically or at an angle. (N.C. Level 4-6)



System Requirements: Windows 95, 98, 2000, NT or XP. Mac OSX 10.1or later

Symmetry & Transformations v 1.0

Transform is a resource program. Students can investigate the effect of reflections, rotations, translations and enlargements on 2-D shapes in the plane. (N.C. Level 3 onwards)

Add a Square challenges students to complete a series of shapes and to identify their lines of symmetry. (N.C. Level 4)

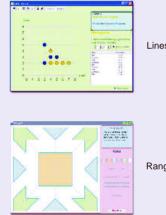
Remove a Square is a variation on Add a Square in which students make symmetrical shapes. (N.C. Level 4)

Centre Point provides students with a series of

Locate challenges students to find the co-ordinates of a point. The scaling of each axis can vary independently. (N.C. Level 3-4)

Rhino develops an understanding of co-ordinates in one or all four quadrants. It can be used as an early introduction to the concept of loci.

(N.C. Level 4-6)



Lines



carefully levelled tasks in which they identify the centre of rotation. (N.C. Levels 5-6)

Mirror consists of 3 activities which consolidate and build on understanding of line symmetry. (N.C. Level 3-5)

Tiles is a creative mathematical design tool in which students explore how reflection and rotation can be used to produce decorative patterns. (N.C. Level 4 onwards)

Rangoli enables students to create traditional Indian designs using a series of reflections. (N.C. Level 4-6)

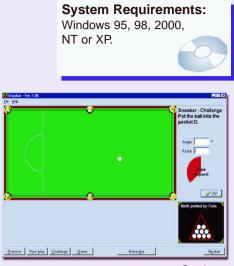
Shape, Space & Measures

Angle Estimation v 1.00

Angle 90° focuses on drawing and estimating angles between 0° and 90°. (N.C. Level 3–4)

Angle 360° focuses on drawing and estimating angles between 0° and 360°. (N.C. Level 4–5)

Snooker consists of 4 activities which motivate students to use their angle estimation skills in order to pot snooker balls into pockets of their choice or generated by the computer. (N.C. Level 4–5)



Snooker

Movement v 2.00



3-D Maze challenges students to escape from a 3-dimensional maze. A grid map is available for help, but students are only shown the walls of the maze that they have already visited. (*N.C. Level 4–8*)

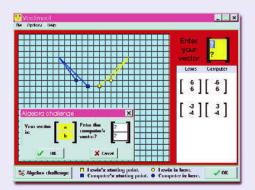
Maze challenges students to find their way through one of ten predetermined 2-dimensional mazes. (N.C. Level 1-2)

Pilot focuses on points of the compass and on mental visualisation. Students have to imagine a turning compass and use this to navigate their boat to a series of flags. (N.C. Level 4–6)

Queens is a resource program based on the chess piece. It allows students to investigate placing queens on different size boards. (N.C. Level 4–8)

Racegame simulates a grand prix race in which students use vector notation to steer cars around one of three race tracks. *(N.C. Level 5–7)*

Vectmeet develops students' understanding of transformations through vectors. The program includes an algebra challenge which encourages students to find algebraic descriptions for the various geometric transformations. (N.C. Level 6–EP)



Vectmeet

MicroSMILE Software Shape, Space & Measures

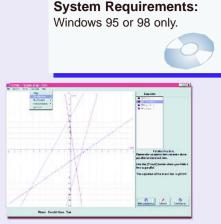
Graphing v 9.1.1a

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Linear Graphs and Inequalities

Plotter allows students to explore features of linear graphs. Contains 5 structured activities. (*N.C. Level* 6–8)

Regions allows students to explore features of linear inequalities and regions. Contains 2 structured activities. (N.C. Level 7–8)



Parallel Lines

Printed Resources

Shape, Space & Measures

Materials to teach time Time Tiles, 12 Hour Bingo and 24 Hour Bingo

These three activities are highly motivating resources to support students who have difficulty in telling the time. Each activity is self checking. Good for promoting collaborative learning. Teachers' notes included.



Suitable for N.C. Levels 2 to 4 Cost: £10.00 + £1.75 VAT

Graphs

Dipsticks, Graph Matching, Matching Graphs and Simultaneous Equations from Graphs

Four practical activities which help students to make the connections between graphs and scales, mappings, equations and solving simultaneous equations. Excellent for group work and language development. Ideal for Gifted and Talented resources. Teachers' notes and answers included.



Suitable for N.C. Levels 6 to 8 Cost: £10.00 + £1.75 VAT

Thinking Skills

NEW Version

Mathematical Puzzles v 3.0 Six programs which promote problem solving skills.



Available from June 2004

System Requirements: Windows 95, 98, 2000, NT or XP. Mac OS 9.1, OSX 10.1 or later.

Boat is a challenging transportation problem. (*N.C. Level 4 onwards*)

Frogs challenges students to swap the positions of green and red frogs. (N.C. Level 4 onwards)

Hanoi simulates the ancient Towers of Hanoi problem. (N.C. Level 6 onwards)

Hats involves moving pairs of red and green hats in order to get all of one colour together. (*N.C. Level 4 onwards*)

Jugs simulates a range of measurement problems. (N.C. Level 5 onwards)

Investigations v 1.01

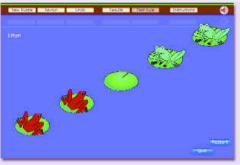
Four programs which develop problem solving and mathematical thinking skills.

Inscribe allows students to explore shapes made by jumping between points on a circle.

Points challenges students to find and test a rule for the number of lines drawn when each point on a circle is joined to every other point.

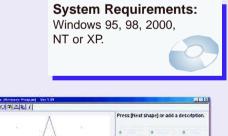
Spirals allows students to explore shapes made by moving and turning using a sequence of lengths and a fixed angle.

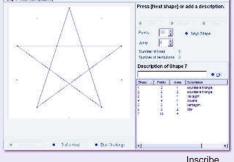
Trellis challenges students to find and test a rule for the number of wires needed to complete a pattern in a frame. They also explore the number of



Frogs

Nim is a game which is played against the computer on a number of levels. A sophisticated strategy is required in order to win. (N.C. Level 6 onwards)





holes passed through and the finishing corner for the first wire.

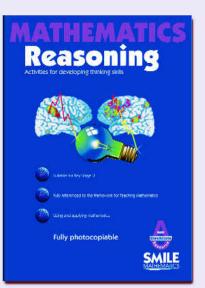
Thinking Skills

Reasoning

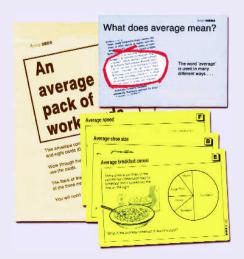
Reasoning contains 27 activities, fully referenced to the yearly teaching programmes from the Framework for Teaching Mathematics Year 7, 8 and 9. Each activity has been assigned to a particular year group to help departments integrate Using and Applying Mathematics and Thinking Skills into their Key Stage 3 Scheme of Work.

- Promotes comprehensive development of Thinking Skills
- Teachers' notes for each activity
- Provides manageable differentiation

Suitable for Key Stage 3 Cost: £25.00



Problem solving activities An Average Pack of Workcards, Problems and Ratio Problems



Three thought-provoking packs containing a wide variety of problems involving algebra, ratio and averages. Excellent for promoting discussion and mathematical reasoning. Ideal for Gifted and Talented resources. Teachers' notes and answers included.

Suitable for N.C. Levels 6 to 8 Cost: £8.00 + £1.40 VAT

Problem solving posters

Locate the Error, Puzzling Walk, Blocked and 3 in 1 Maze Posters

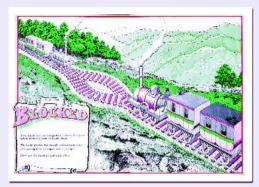
These four attractive posters each provide thought-provoking situations. These activities are ideal for Gifted and Talented students. Solutions included.



(420mm x 594mm)



(420mm x 297mm)



(420mm x 594mm)



Suitable for N.C. Levels 4 to 8

Cost: £12.00 + £2.10 VAT for all four posters

Mental Mathematics

Maths in Your Head

Whole class lesson starters and enders. This A4 book contains 20 successful whole class activities for developing fluency with mental mathematics. Comprehensive teachers' notes. Photocopiable resource sheets are provided. Will add variety and liveliness to the classroom environment.

Suitable for Key Stages 2 & 3 Cost: £6.50





Register Residence in the second of the seco

Reckonings

Whole class lesson starters and enders. This A4 book contains 20 successful whole class activities for developing fluency with mental mathematics. Each activity is accompanied by a comprehensive description with suggestions on classroom management. Photocopiable resource sheets are provided.

Suitable for Key Stages 2 & 3 Cost: £6.50

Imaginings

A booklet containing over 30 different activities covering a range of levels to encourage mental imagery skill. A valuable resource for whole class lesson starters and enders. Excellent for encouraging precise language within shape and space.

Suitable for Key Stages 2, 3 & 4 Cost: £3.00

Whole Class Teaching

Wealth of Worksheets

The 188 activities on this CD provide a diverse range of resources. The CD is Mac/PC compatible. The worksheets are easily sorted by Topic and Level and include a full set of answers. Activities can be printed individually or by group.

- Full range of N.C. levels
- Referenced to the Framework for Teaching Mathematics
- Fully photocopiable

Suitable for Key Stages 2, 3 & 4 Cost: £49.00 + £8.58 VAT

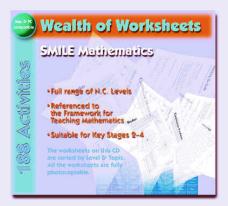
Whole Class Mathematics Projects

This 88 page book provides a powerful tool for whole departments seeking to enhance the range of teaching skills in the classroom and enrich students' experience of mathematics.

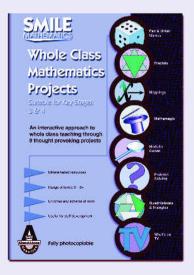
The 8 projects are structured as a number of working sessions, each of which incorporates direct whole class teaching, collaborative group work and a plenary session.

Each project has comprehensive teachers' notes and answers and is fully photocopiable within the purchasing establishment. Ideal for professional development.

Suitable for Key Stages 3 & 4 Cost: £25.00



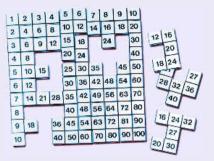
System Requirements PC 486/66 Mhz or higher Windows™ '95+, or NT MAC Power Macintosh MAC OS 8.1 or higher General 16 bit colour monitor (800 x 600) minimum.



Collaborative Learning

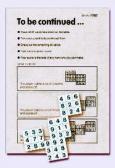
Multiplication games

These three games provide fun and effective ways to reinforce multiplication facts up to $10 \ge 10$. Good for collaborative learning. Pupils will want to come back to these again and again. Teachers' notes included.



Multiplication Jigsaw Puzzle





Triominoes

To be continued ...

Suitable for N.C. Levels 2 to 5 Cost: £10.00 + £1.75 VAT

Fractions galore

"50% is Half Marks", "54% is a Little More than Half Marks", Fraction Bingo.

Three practical activities involving fraction and percentage calculations and the equivalence between fractions, decimals and percentages. Teachers' notes and answers included.

Suitable for N. C. Levels 5 to 6 Cost: £11.00 + £1.93 VAT



Posthalf (Free with Fractions galore while stocks last)

A set of nine posters based on the SMILE program featured on the National Numeracy Strategy CD Rom. The posters (each 300mm x 300mm) provide a stimulating display for the classroom.

Collaborative Learning

Conversions

Centigrade to Fahrenheit, Conversion Pack 1 and Conversion Pack 2

Three enriching activities designed for small group work, each packed full with challenging conversion problems. Conversions include both metric and imperial units. Teachers' notes and answers included.

Suitable for N.C. Levels 5 to 7 Cost: £8.00 + £1.40 VAT



Towers

This motivating game for 2–4 teams, based upon Trivial Pursuit, is an excellent resource for groups of students to revise together.

There are 400 questions, arranged by Attainment Target and providing questions and answers at two levels of difficulty. Easy questions are aimed at Foundation students, harder questions at Intermediate/Higher. The questions on their own provide a source of mental mathematics questions.

Suitable for Key Stages 3 & 4 Cost: £6.00 + £1.05 VAT



You will need: a dice and cubes

Collaborative Learning

Multicultural mathematical activities

Bengali 19 Piece Puzzle, Chinese Number Puzzle, Talking poster, Which Script? poster and worksheet, Bengali Numbers, Hindi Additions, Panjabi Numbers and Urdu Multiples

A wide range of stimulating materials which help to develop understanding of place value and properties of number within a multicultural context. The pack contains 2 box puzzles, 2 posters (A3 size), 1 worksheet original and 4 activity cards (5 copies of each). Teachers' notes and answers included.









Suitable for N.C. Levels 5 to 7 Cost: £15.00 + £2.63 VAT



Activities for maths clubs

These packs contain a range of activities specially selected to inspire in pupils a confidence and enjoyment of mathematics. They will enhance any existing scheme of work and are perfect for use in maths clubs. The activities encourage a problem solving approach and foster collaborative learning. Each pack comes complete with accompanying notes and worksheets.

"There is an extraordinary diversity of materials here covering every Attainment Target of the National Curriculum ... perhaps I can convey the quality of the materials from the fact that I wanted to try everything myself there and then ... Just remember to let the pupils use them as well." TES

Level 5–6 Contains 12 activities

Suitable for Key Stages 2, 3 & 4 Cost: £30.00 + £5.25 VAT





Level 7– Exceptional Performance Contains 12 activities

Suitable for Key Stages 3 & 4 Cost: £30.00 + £5.25 VAT





Equiangular Spirals

Square Jigsaw

Printed Resources Primary/Secondary Transition

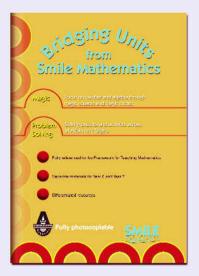
Bridging Units from Smile Mathematics

The two units, Magic and Problem Solving, facilitate learning through differentiated group activities and by stimulating whole class discussion. They are fully cross-referenced to the Framework for Teaching Mathematics.

Each lesson is accompanied by comprehensive teachers' notes including a detailed description within the three part structure of a 'typical' mathematics lesson, answers and key vocabulary. Ideal for professional development.

- Separate materials for Year 6 and Year 7
- Fully photocopiable

Suitable for Key Stages 2 & 3 Cost: £20.00



12

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Numeracy at Home Packs

Numeracy at Home - Multiplication has been a popular purchase by schools for use by parents or support teachers. Provides a variety of activities to encourage fluency with multiplication facts. Numeracy at Home - F D P uses a similar format to encourage fluency with the use of fractions, decimals and percentages. Each pack contains:

- Booklet written for parents, which describes how to use the pack
- Eleven sets of multiplication cards
- One Games Board
- Recording Sheet for teachers and parents

Suitable for Key Stages 2 & 3 Multiplication Cost: £30.00 + £5.25 VAT for a pack of 10

Fractions, Decimals & Percentages Cost: £30.00 + £5.25 VAT for a pack of 10



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End of Level Reviews

These are widely acclaimed by schools as a perfect tool for reviewing students' progress. An invaluable aid to teachers when setting individual student targets. Questions of graded difficulty provide information on the depth of understanding.

Alternatively these books can be used to evaluate the effectiveness after a unit of work. An essential aid to informing teachers' termly planning of each topic.



Suitable for Key Stages 2, 3 & 4

The End of Level Reviews are available by level in packs of five:

Level 3 @£12.50 pck Level 4 @£15.00 pck Level 5 @£15.00 pck Level 6 @£17.50 pck Level 7 @£17 Level 8 @£15 Exceptional Performance @£17

@£17.50 pck @£15.00 pck @£17.50 pck

SMILE Materials

We are continuing to support SMILE schools who still use the card resources to run individualised learning schemes. For these schools, we hold a small quantity of stock of the Activity Lists, the Networks, the Test Books and Sheets, Test Answer Sheets and the Answer Books and Sheets. Please contact SMILE Mathematics for pricing and ordering information.



INSET for Mathematics Teachers

SMILE Mathematics offers a wide range of in-service training for schools and LEAs. Please contact us if you are interested in any of the courses below or if you would like us to adapt a course to meet your own particular requirements (this may incur an additional preparation charge).

Free INSET for Schools and LEAs

We provide free INSET, focused on SMILE resources, to schools and LEAs. This is subject to availability and a minimum attendance of 8 people. We charge only for travel/subsistence.

Seminars and workshops we currently offer include:

- Using SMILE resources to develop mathematical reasoning and problem solving.
- SMILE Whole Class Mathematics Projects: an interactive approach to whole class teaching.
- Using SMILE resources to explore handling data.
- MicroSMILE software and the interactive whiteboard.
- Improving primary/secondary transition with the SMILE Bridging Units.

Other INSET for Schools and LEAs

We provide INSET to schools and LEAs on a consultancy basis. Seminars and workshops we currently offer include:

- Enriching mathematics at Key Stages 3 and 4.
- Using spreadsheets in the mathematics classroom.
- Getting started with dynamic geometry software.
- Mathematics and citizenship: opportunities for classroom activities, handling data and ICT.
- Using Word or Excel to create interactive mathematical activities.

The fees for these courses are:

Half day course (up to 3.5 hours) - £250 (+ travel/subsistence) Full day course (up to 6 hours) - £400 (+ travel/subsistence)

Forum for Mathematics in Special Education

This group meets for three whole day sessions spread over the academic year. It provides an opportunity for teachers in pupil referral units, hospital schools, home tuition services, special schools, etc. to discuss developments in special and mainstream education. It often involves outside speakers and facilitators. The course is based at the Isaac Newton Centre in West London. Cost: £30 for one day, £50 for all three days.

MicroSMILE — SM Order Form

Software Licences All licences are based on the number of concurrent users.

SMILE MATHEMATICS

Isaac Newton Centre 108A Lancaster Road London W11 105

Tel: 020 7598 4841 Fax: 020 7598 4838

Licences

A single user licence may be installed on a single machine only; all other licences entitle the purchasing establishment to install the software on a network or standalone machines.

Upgrading Software and Licences

- A software upgrade is an upgrade from an old version to a new version of the same software. Full pricing details are available on our website.
- A licence upgrade is an upgrade to a larger number of users. Upgrading from one type of licence to another is possible by quoting version and licence numbers, and paying the difference between the two licences. You can only upgrade a licence if you already hold a licence for the most recent version of the software.

	Licence			
MicroSMILE Software	Single User	2 to 15 Users	16 to 50 Users	More than 50 Users
Numeracy v 1.00	£50.00	£100.00	£150.00	£200.00
Ratio v 1.02	£30.00	£60.00	£90.00	£120.00
Enriching Number v 1.0	£25.00	£50.00	£75.00	£100.00
Properties of Number v 3.0	£45.00	£90.00	£135.00	£180.00
Sense of Number v 1.0	£45.00	£90.00	£135.00	£180.00
Probability v 1.0	£35.00	£70.00	£105.00	£140.00
Exploring Geometry v 1.0	£40.00	£80.00	£120.00	£160.00
Co-ordinates v 3.0	£40.00	£80.00	£120.00	£160.00
Symmetry & Transformations v 1.0	£50.00	£100.00	£150.00	£200.00
Angle Estimation v 1.00	£25.00	£50.00	£75.00	£100.00
Movement v 2.00	£40.00	£80.00	£120.00	£160.00
Graphing v 9.1.1a (Win 95/98 only)	£40.00	£80.00	£120.00	£160.00
Mathematical Puzzles v 3.0 (Available June 2004)	£50.00	£100.00	£150.00	£200.00
Investigations v 1.01	£30.00	£60.00	£90.00	£120.00



Software Support

Visit our website to access frequently asked questions. If you are still having problems, email the IT Learning Exchange at technical.title@londonmet.ac.uk

Order Form

Title of Software	9	No. of Users	Price
Numeracy v 1.00			
Ratio v 1.02			
Enriching Number	v 1.0		
Properties of Num	ber v 3.00		
Sense of Number	v 1.0		
Probability v 1.0			
Exploring Geomet	ry v 1.0		
Co-ordinates v 3.0			
Symmetry & Trans	formations v 1.0		
Angle Estimation	/ 1.00		
Movement v 2.00			
Graphing v 9.1.1a (Win	95/98 only)		
Mathematical Puzz	zles v 3.0 (Available June 2004)		
Investigations v 1.01	1		
		Total	
dual school s for software	If total above is £900.00 or	more subtract 5% Discount	
rinted	*Postage & packing at £2.50 per item up to		

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*Postage & packing at [
£2.50 per item up to	
a maximum of £5.00.	
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Printed Resources **Order Form**



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		Decimal Playing Cards			
	S2096	Fraction Playing Cards		£4.11*	
S2404		Equivalence Playing Cards		£4.11*	
	S2226	Number Playing Cards		£4.11*	
	SRMS	Ratio Makes Sense		£15.00	
	SFDP1	FDP Make Sense Vol.1		£15.00	
	SFDP2	FDP Make Sense Vol.2		£15.00	
	SMMS	Multiplication Makes Sense		£15.00	
	SSMS	Spreadsheets Make Sense		£15.00	
	S1783	Calculating		£3.50	
	S1671	Multiplication Jigsaw		£4.70*	
	S2303	Hundred Fit		£4.11*	
	Data Handling				
•	SRD	Real Data		£58.75*	
	1-874072-02-7	Discussing Data		£35.25*	
	Shape Space &	Measures		1	
	SMTTT	Materials to teach time		£11.75*	
	SG	Graphs		£11.75*	
	Thinking Skills			1	1
	SRB	Reasoning		£25.00	
	SPSA	Problem solving activities		£9.40*	
	SPSP	Problem solving posters		£14.10*	
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	S2324	Reckonings		£6.50	
	S2112	Imaginings		£3.00	
	Whole Class Te	aching			
()	SWWCD	Wealth of Worksheets CD		£57.58*	
	SWCMP	Whole Class Mathematics Projects		£25.00	
	Collaborative L				
	SMG	Multiplication games		£11.75*	
	SFG	Fractions galore		£12.93*	
	sc	Conversions		£9.40*	
	S2292	Towers		£7.05*	
	SMMA	Multicultural maths activities		£17.63*	
	*Price includes \		1		

Sub-total 1

Order Form

	Quantity	Price	Sub-total
Activities for Maths Clubs level 2-4		£35.25*	
Activities for Maths Clubs level 5-6		£35.25*	
Activities for Maths Clubs level 7-EP		£35.25*	
econdary Transition			
Bridging Units		£20.00	
Numeracy@Home-Multiplication (Pk of 10)		£35.25*	
Numeracy@Home-FDP (Pk of 10)		£35.25*	
ent-End of Level Reviews			
Level 3–Pack of five		£12.50	
Level 4–Pack of five		£15.00	
Level 5–Pack of five		£15.00	
Level 6–Pack of five		£17.50	
Level 7–Pack of five		£17.50	
Level 8–Pack of five		£15.00	
Exceptional performance-Pack of five		£17.50	
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*Price includes VAT

Individual school orders for software and printed resources placed at the same time will incur one postage charge of £5.00.

+ Overseas orders will be despatched at cost (airmail) plus a handling charge of £5.00.

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Postage & Packing £2.50 per item up to a maximum of £5.00

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SMILE Mathematics www.smilemathematics.co.uk

The SMILE Mathematics website includes:

- Full details of all our products and training provision.
- Online software ordering form.
- Trial versions of MicroSMILE software.
- Free support documents to help teachers organise teaching and learning with MicroSMILE software.
- Interactive activities live in your browser.
- Links to useful maths related sites.

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