

MATHEMATICAL EDUCATION
ON MERSEYSIDE

Registered Charity 517028

MATHEMATICAL EDUCATION ON MERSEYSIDE

ORBITER

January
2005

KEEPING MATHS EDUCATION PROFESSIONALS IN TOUCH

Do you know which maths activities we can offer your pupils?

With the new year upon us why not get your pupils off to a flying start by entering them in the MEM Challenge and Senior Challenge Competitions 2005? Read on to find out more about these and other activities Mathematical Education on Merseyside is currently involved in.

Contact us

Tel:

0151 794 4066/4050

Web:

www.maths.liv.ac.uk/~mem

Email:

orbitereditor@merseymail.com

Post:

MEM, Department of
Mathematical Sciences,
University of Liverpool,
Peach Street,
Liverpool, L69 7ZL

MEM President:

Dr Ian R Porteous

MEM Chairman:

Mr Barry Grantham

MEM Secretary:

Mr Benjamin Margetts

LMS President:

Prof. Peter Giblin

LMS Secretary:

Mr Phil Bamber

Quick Calendar

January:

Sat 22nd

LMS Primary Programme

"Fun with maths" KS1/2

March:

Sat. 5th

LMS Sixth Form

Pop Maths Quiz

Sat. 12th

LMS Primary Programme

"Maths through stories and
rhymes" KS1

For more information on LMS
events see attached sheets or
contact the LMS Secretary on

Tel: 0151 291 3490

or

bamberp@hope.ac.uk

Challenge 2005 Senior Challenge 2005

MEM has two competitions which
secondary pupils can enter during
February, usually over half-term.

Challenge is aimed at years 7 & 8,
while Senior Challenge is targeted at
years 9 & 10.

Each paper consists of about 7 ques-
tions and is attractively produced with
lively drawings from Peter Ackerley.

A prize-giving for winners is held in
May/June at the University of Liver-
pool; parents and friends are wel-
come to attend.

One copy of each of Challenge and
Senior Challenge will be sent to all
Heads of Mathematics around the
end of January for duplication in
school. We will also enclose a letter
giving details of how to enter the
competition.

Any teachers who are not Heads of
Maths but wish to receive their own
copies should ring Ann Newstead
Tel: 0151 794 4066
as soon as possible and leave a mes-
sage on her voicemail with their
names, addresses and telephone
numbers. She can also be contacted
by e-mail:

a.newstead@liv.ac.uk

giving the same details.

Remember Senior Challenge
1980 - 2003 is now available on
CD - Details enclosed.

Masterclasses 2004

- the success story continues!

The 2004 Masterclass sessions were
held in the Autumn term. 72 Y7 & 8
pupils from over 40 schools attended
five Saturday sessions.

The venues included the University of
Liverpool for sessions 1 & 5 and
Liverpool Hope University College for
sessions 2, 3 and 4.

We hope to build on the success of
our annual masterclasses with a
further series of sessions from
October to December 2005.

This year's sponsor was Alliance &
Leicester.

MEM is pleased to acknowledge
generous financial help received
during the past 12 months from:

MERCER

Human Resource Consulting



The Holt Charitable Trust
W.H.Smith Promotions Ltd
Liverpool Hope University College
The University of Liverpool
Liverpool John Moores University

LMS Funmaths Roadshow



Funmaths Roadshow Boxes 1 to 8 on CD £10 (p&p included).

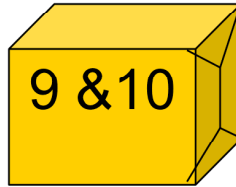
Work on the development of the Funmaths Roadshow is continuing.

This edition we celebrate the addition of Boxes 9 & 10 of the Roadshow. The boxes are targeted at the transition period between Sixth form and first year university. These have recently been trialled and will be available in the near future.

Boxes 9 & 10 will complement the existing eight boxes aimed at each of the school years between Y5 & 12 (Keystages 2, 3 & 4 and L6)

Each box contains 25 activities. All that you need can be found on the CD. All puzzles are provided in pdf format, with response forms and certificates in Word format for you to customise.

There are baseboards to be enlarged to A3 and laminated. Templates and shopping lists are included for additional materials.



Welsh, Gaelic (Scottish) and French versions are now in preparation. The Welsh version was trialled at Ysgol Glan Clwyd on 11th November. Finished versions will be included in later editions of the CD!

To obtain a copy of the CD please send the attached form with a cheque payable to:

The Liverpool Mathematical Society

Any requests for visits (no fee, apart from basic hospitality) should be by email to:

Ian Porteous
porteous@liv.ac.uk

For further information on the Roadshow visit the website:

www.maths.liv.ac.uk/LMS/funmaths.html

To purchase a copy contact

Barry Grantham
granthb@hope.ac.uk

Tel: 0151 291 3612

Fax: 0151 291 3163

Senior Challenge 1980 – 2003

Senior Challenge 1980 – 2003 on CD £10 (p&p included).



A full set of questions and answers is now available with original Peter Ackerley Cartoons on CD.

To obtain a copy please send a cheque payable to:

Mathematical Education on Merseyside

for the attention of:
Prof. Peter Giblin
at the usual MEM address
(see front page).

Orbiter Online

The September 2004 edition of the Orbiter is now available online for all in pdf format. The January 2005 edition will be added shortly.

In addition all reply slips and application forms will be accessible in Word format from:

www.maths.liv.ac.uk/~mem

Liverpool University Maths Club

- Need more challenging maths?

The club was formed a number of years ago at the request of several pupils who had previously enjoyed MEM masterclasses. The LUMC is ideal for pupils of GCSE standard or above, who are eager to extend their knowledge and take on maths challenges.

We generally meet the last Saturday of each month during term time.

LUMC meets in the Department of Mathematical Sciences at the University of Liverpool, usually for a full morning.

Dates for the next few months are as follows:

29th January
26th February
19th March (not 26th March)
30th April

We do not charge anything for pupils to attend.

More details and application forms are available from:

David Lewis
d.m.lewis@liv.ac.uk

www.maths.liv.ac.uk/~mathsclub/

ATM

Anybody interested in local Association of Teachers of Mathematics activities or resources is welcome to contact Sue Humphreys at:

suehumphreys@wirral.gov.uk

Tel: 0151 346 1182

Wirral Professional Development Centre, Acre Lane Education Centre, Bromborough, Wirral, L62 7BZ

Can we get in touch?

Do we have up to date contact details for you? Email, phone, fax, address etc

Keep in touch with all the latest news
Contact us at:

orbitereditor@merseymail.com

Please circulate the Orbiter to all Maths colleagues in your department



Order Form

Please send the FunMaths Roadshow CD to:

Name	
Address	
Town	
Post Code	
Telephone	
Email	

<p>The CD consists of 200 puzzles arranged in 8 'boxes' of 25 puzzles, with answers, templates and other supporting information.</p> <p>Boxes 1 & 2 are aimed at Upper Primary/Lower Secondary, Boxes 3 & 4 Lower Secondary, Boxes 5 & 6 Mid Secondary and Boxes 7 & 8 Upper Secondary/Lower Sixth.</p>	
<p>Individual CDs are supplied in a plastic jewel case with printed inserts, at £10.00 each, inclusive of post & packing.</p>	<p>Number of CDs at £10.00 each</p>
<p>Bulk packs of 10 CDs are supplied in paper sleeves, not jewel cases, with printed instructions, at £50.00 per pack, including post & packing.</p>	<p>Number of packs at £50.00 per pack</p>
<p>Total value of order:-</p>	

Cheques should be made payable to **Liverpool Mathematical Society**

Orders and payments should be sent to:

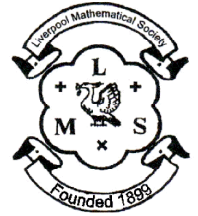
**FUNMATHS ROADSHOW, Barry Grantham, Mathematics,
Liverpool Hope University College, Hope Park, Liverpool, L16 9JD**

Tel: 0151 291 3612 Fax: 0151 291 3163 email: granthb@hope.ac.uk



LIVERPOOL MATHEMATICAL SOCIETY

(INCORPORATING THE LIVERPOOL BRANCH OF THE MATHEMATICAL ASSOCIATION)



SIXTH-FORM POP-MATHS QUIZ

Saturday 5th March 2005

Byrom St. Campus,

Liverpool John Moores University.

10.30am- 12noon: Pop-Maths Quiz

The 'pop-maths' quiz is a competition that runs like a Pub Quiz but without any alcohol. Teams consist of at most 5 students (under 19 years) who, during the Quiz, work as a team to attempt to solve a number (about 20) questions on a wide range of mathematical topics. Not all questions require specific A-level maths knowledge.

All solutions are then submitted to a scrutineer for checking.

Prizes (valuable) are awarded to the winner(s) on the day (see below).

12.15pm – 12.45pm: Lunch (please bring your own packed lunch)

1pm-2pm

A brief look at the solutions to the questions and how they were obtained.

2pm – 2.15pm: Prize-Giving & Close

Pick up your prize (maybe) and a printed set of answers – and then ask your teacher if (s)he can do the ones you got wrong!!

The winning teams will have their names and school published on the Liverpool Maths Society web site for all the world to see and for you to revel in the glory!

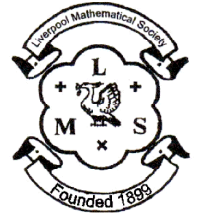
Note:

Each school is invited to enter one or more teams for the pop-quiz, but as space is limited, you are asked to send in your reply slip overleaf as soon as possible to avoid disappointment.

There is **no entry charge** for this event.



LIVERPOOL MATHEMATICAL SOCIETY



(INCORPORATING THE LIVERPOOL BRANCH OF THE MATHEMATICAL ASSOCIATION)

I would like to enter team(s) for the pop-maths quiz on Saturday 5th March 2005.

Each team should consist of 5 students where possible, although one team from any given school or college may have fewer than 5 students. All students should be between 16 and 19 years of age.

Name of Teacher & School

.....

Address.....

.....

.....

Tel:.....

Fax:.....

e-mail:.....

Please return this slip to:

**Dr. D. Pountney,
School of Computing & Mathematical Sciences,
Liverpool John Moores University,
Byrom St.
Liverpool.
L3 3AF
no later than 28 February 2005.**

All entry forms received will be replied to so as to confirm places (preferably by e-mail d.c.pountney@livjm.ac.uk).

Liverpool Mathematical Society

Primary Programme

During the 2004 - 5 school year we are offering a series of 3 primary meetings, each with a different theme. All will take place on Saturday mornings between 9.30am and 1.15pm at:



The Department of Mathematical Sciences
(University of Liverpool)
Mathematics and Oceanography Building
Peach Street
Liverpool L69 7ZL



Theme

Saturday 22 January 2005

Fun with maths (KS1/2)
John Dabell (Teacher, author and editor)
Closing date for applications 7 January

Saturday 12 March 2005

Maths through stories and rhymes (KS1)
Sue Humphreys (Numeracy Adviser, Wirral)
Closing date for applications 25 February

Programme

9.30am *Arrival, registration and coffee*
10.00am **Session 1**
11.15am *Break*
11.45am **Session 2**
1.00pm *Close*
1.15pm *Light lunch (optional)*

Fee

£50 per person to include refreshments and lunch

Each additional delegate from same school:

£20 plus refreshments and lunch

(Refreshments - coffee on arrival and at break £1.50; lunch plus refreshments £5.00)

Payment is by cheque with application or by invoice to your school to be paid before the event. Refund will only be made for cancellations received before the closing date. Cancellations after that date will be charged in full.

Invoices and/or confirmations of bookings will be sent to you on receipt of application.

Places are limited so please complete and return the appropriate application form(s) as soon as possible to:

For further details and/or application form please contact Wendy Singleton

01254 885907 (Home)

07932 687941 (Mobile)