



Resource Pack for Primary Schools

Scotland



Involving Parents

Teachers' Notes for Resource Sheets IP1 - IP12

Maths Year 2000 Scotland Resource Pack: Involving Parents

Booklet and accompanying Resource Sheets IP1–IP12 published November 2000

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Resource Sheets:

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Involving Parents

Introduction

Maths Year 2000 Scotland has provided every parent of a primary school child in Scotland with the booklet 'It All Adds Up'. The aim of the booklet is to encourage parents to use mathematics in daily life with their child. Many schools are supporting parents further by nurturing confidence in their own skills and providing suitable activities to share at home. This resource pack contains examples of these activities.

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Numeracy Workshop Introducing parents to the school
and providing reassurance that
home activities contribute to their
child's learning in maths

Up to A IP8–IP10, IP12

Maths Workshops Hands-on workshops for parents to
familiarise them with current
mathematics teaching, so they can
help their child with their homework,
and talk about the work their child
does in class with confidence

B–E IP7, IP11, IP12

Appendix

**Resource Sheets:
IP1-IP7
Level: up to A-C**

Resource Sheets

IP1: Example card for Currant Buns number bag

IP2: Feedback form

IP3-IP6: Activity sheets "Ice Cream", "Milk Shake", "Chips" and "Cake", suitable for book bags, or as home activity cards.

IP7: Parent leaflet for inclusion in each bag

Home-School Links

Number Bags/Maths Game Bags

The aim of the bags is to promote home-school links through mathematics.

The bags are made of cloth and contain a variety of mathematical activities and games which parents can borrow to use with their family at home.

Examples of possible contents:

- *5 Currant Buns*: a small magnetic whiteboard, magnetic currant buns and penny coins, rhyme book with 5 Currant Buns rhyme, number cards from 1 to 5, an ideas card and a feedback form. See resource sheets IP1, IP2.
- *Shopping*: a mini shopping basket, a shopping game, a till, plastic money, a book about shopping, an ideas card and a feedback form.
- *Counting back*: a small magnetic whiteboard, magnetic logs and frogs, rhyme card and story, a book and a tape of a song, a set of magnetic numbers, an ideas card and a feedback form.
- Resource sheets IP3-IP7 are activity sheets which link with specific books. The books are listed in the appendix.
- Suitable games for the Maths Games Bags:
 - Number Jigsaws: x100; +/-100; +/- 1000
 - Chess Draughts
 - 4 in a row Bingo
 - Ludo Snakes & Ladders
 - Solitaire Chinese Chequers
 - Dominoes Palace in Numberland (board game)
 - Grand Prix (board game) Darts (velcro safety game)
 - Whoosit (identify faces) Twister
 - Yahtzee (dice game) Shift-tac-toe (variation of 3 in a row)
 - Tangram (shape game) Make 7 (variation of 3 in a row)
 - Battleships Frustration
 - Number Mastermind Reversi (board game and draughts)
 - Rubik's Cube Auntie Pasta's Fractort Game
 - Pay-day (board game) Monopoly (board game)
 - Uno (card game) Downfall
 - Square Meal (board game)
 - Target Ball (velcro safety game)
 - Triominos (triangular draughts)
- A list of books which could be used in the number bags are listed in the Appendix.

Informing Parents about Maths Teaching

Resource Sheets:

IP7-IP12

Level: A-E

Numeracy and Mathematics Workshops

The aim of the workshops is to encourage parents to become involved in their child's learning and to promote the teaching of mathematics.

The workshops could be aimed at specific stages in the primary, e.g. primary 1, infant stages, P4-7, etc.

Ideas for workshops

- *Introduction to mathematics teaching*: This workshop is aimed at parents of children in P1/2. The workshop could be split into three parts: Focus on Home, Focus on School and Maths across the Curriculum. The first part would concentrate on how parents can help develop their child's mathematical skills. The second part would give parents an opportunity to see the resources used to support the teaching of mathematics and the last part would illustrate how maths is taught in other areas of the curriculum, e.g. environmental studies. See resource sheets IP7 – IP10.
- *Do you need help with your child's homework?*: This workshop is designed to help parents understand how mathematics is taught. The workshop could be planned in two parts, the first being a general introduction to the attainment outcomes in 5-14 Mathematics with the second part being a series of practical activities. Ideas for the practical activities are listed below. See resource sheets IP12 – IP13.

Practical activities with suggested resources

- How to subtract using decomposition
 - place value boards, examples of worksheets, resource sheet IP12
- Division
 - examples of worksheets, pupil texts
- Maths Games
 - assorted maths games and materials
- Using the Internet
 - access to the internet, list of useful websites (see Appendix for a selection of suggested web sites)
- Using Computers
 - computers, assorted mathematical software
- Mental calculation
 - counting sticks, number squares and cards, washing lines, loop cards, examples of calculations and mental strategies
- Problem solving
 - specific problems at a variety of 5 – 14 levels which cover all the recommended strategies

Resource Sheets

IP7: Parent leaflet for distribution at the workshop

IP8, IP9: OHP slides for *Introduction to mathematics teaching*

IP10: Parent handout listing ideas for how parents can help their child with maths

IP11: OHP for *Do you need help with your child's homework?*

IP12: Parent handout on decomposition, for either workshop.

Appendix

Books for Maths Bags

Title	Author	Series	Publisher
One, two, Skip a few		First Number Rhymes	Barefoot Books
Nonsense Counting Rhymes	Kaye Umansky Chris Fisher		Oxford University Press
Reading Together: Incy Wincy Spider and other action rhymes			Walker Books
Photocopiable Maths Games			Scholastic Books
At Home	Annie Owen	Everyday Maths	
Fun With Food	Annie Owen	Everyday Maths	
Ourselves	Annie Owen	Everyday Maths	
Out and About	Annie Owen	Everyday Maths	
Circles and Spheres	Sally Morgan	World of Shapes	
Spirals	Sally Morgan	World of Shapes	
Squares and Cubes	Sally Morgan	World of Shapes	
Ice Cream	Brian Moses Mike Gordon		Wayland Publishers
Milk Shakes	Brian Moses Mike Gordon		Wayland Publishers
Chips	Brian Moses Mike Gordon		Wayland Publishers
Cake	Brian Moses Mike Gordon		Wayland Publishers

Other Maths Bags Resources

For P1 and below: PlayAlong Maths colour ideas cards and introductory pack with step-by-step guide, photocopiable parent leaflet, daily diary and other resources. Contact: Rona Cheyne, 12 MacTaggart Road, Cumbernauld, G67 1JL, Tel: 01236 610440.

Cambridge Maths Boxes from CUP are a set of maths games suitable for a Games Bag Library. They are available in a number of modules for different age groups, from P1 to P6. They require some assembly and preparation from staff prior to use. Contact: Anne Maile, Cambridge University Press, Tel/Fax: 0131 3127225.

Websites for Parents and Children

- Parentzone <http://www.ngflscotland.gov.uk/parentzone/>
Published by the National Grid for Learning, this website provides a selection of information about general school issues aimed at parents, guardians, carers and others responsible for school-age children.
- learnirect scotland <http://www.learnirectscotland.com/>
learnirect scotland is a free advice and information service for parents and other adults who wish to undertake any form of learning or training.
- Educate the Children Parentzone http://www.educate.org.uk/parent_zone/
Commercial website for parents of children at school in the UK, with activity ideas and information.
- NRICH Primary <http://nrich.maths.org.uk/primary/>
Monthly web magazine filled with puzzles, activities and ideas for primary school children, with teachers' notes and advice for parents.
- Maths MagNet <http://www.mathsyear2000.org/magnet/>
On-line magazines for early primary children, with puzzles and activities.
- MathsNet <http://www.anglia.co.uk/education/mathsnnet/>
Independent educational website for pupils and teachers. Some puzzles are suitable for home activities.
- Madras College Mathematics <http://www.madras.fife.sch.uk/maths/>
Large number of puzzles and games, mostly for secondary, but some (such as the Toothpick puzzles) are suitable for primary school children.
- BBC Education <http://www.bbc.co.uk/education/home/>
Includes interactive mathematics games and materials.
- BBC Scotland Education <http://www.bbc.co.uk/scotland/education/>
Sister site with a Scottish focus, includes mathematics activities based on BBC Scotland's programmes.
- Channel 4 Learning <http://schools.channel4.com/>
Online educational resources for teachers, pupils and home learners and a complete guide to Channel 4's programmes for schools.



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