

Numeracy Policy

INTRODUCTION

We the staff of St. Mary's Primary School teach Mathematics because it is enjoyable and an essential tool for life. It is understood by all staff that Mathematics and Numeracy are one and the same as defined in the DENI School Improvement Programme and the NEELB's Numeracy Policy.

AIMS

Our aims are:

- to encourage the effective use of Mathematics;
- to develop the ability to think clearly and logically
- to develop in pupils personal qualities of perseverance, confidence, independence and co-operation with others;
- to enable all pupils to experience success and pleasure through practical activities;
- to enable pupils to communicate effectively through the medium of Mathematics;
- to foster an understanding of Mathematics through a process of enquiry and experiment;
- to encourage mastery of basic Mathematical skills and knowledge;
- to encourage the use of ICT to support the teaching of Mathematics;
- to encourage parents to become involved in their children's learning.

RESOURCES

Personnel

While as a staff we recognise the responsibility which each of us has in developing Mathematics, our Co-ordinator, Mrs C Mc Cartney, is responsible for the development of Mathematics in our school.

The Mathematics Co-ordinator meets with the whole staff at monthly staff meetings, with each Key Stage monthly in year groups and with individual members of staff.

Current Staff

Foundation Stage - 3 teachers and 2 classroom assistants

Key Stage 1 - 2 teachers

Key Stage 2 - 3 teachers

In-Service Training

Our staff avails of all training provided by the Mathematics Support Service. We were involved in Numeracy Cohort 2.

Equipment

The Co-ordinator is responsible for ordering and monitoring mathematical equipment. Each class teacher has responsibility for their own mathematical equipment which is stored in the classrooms. Equipment is shared.

ICT Resources

As already stated, ICT is important in supporting the teaching and learning of Mathematics. Each class has one computer installed. A new computer suite was opened in October 2008.

Software is included in the appendix at the end of this Policy.

School Environment

We aim to provide a stimulating Mathematical environment for our pupils. Our playground is marked out with a variety of number games. Teachers will organise Maths trails and shape walks for their own pupils.

Classroom Management

We aim to give our pupils a variety of learning experiences in Mathematical lessons. These will include:

Discussion	Pencil and paper	Mental work
Calculator work	Games and puzzles	Broadcasts
Use of ICT	Use of the environment	Problems
Investigations	Practical activities	Estimation

The teaching strategies used will include practical teacher demonstration, individual, paired, group and class teaching. These teaching strategies will match:

- the level of understanding of the pupil.
- the age and ability of the pupil.
- the nature of the topic.
- the available resources.

CONTINUITY AND PROGRESSION

In our planning we intend to ensure that pupils have experiences across each of the five Mathematical areas and through the different levels. Progression is ensured by using the Inter-Board lines of development with the content taken from the Northern Ireland Revised Primary Curriculum Strategy for Numeracy – Learning area of Mathematics and Numeracy. Continuity is ensured by whole staff agreement on:

- Mathematical language and conventions;
- compatibility of teaching approaches;
- development of schemes of work which include progression in I.C.T.;
- appropriate teaching strategies;
- classroom organisation;
- resources and materials;
- assessment and recording procedures.

MONITORING AND EVALUATING

Monitoring and evaluating are integral parts of the teaching and learning in our school and are the responsibility of all members of staff. The co-ordinator will oversee the progress made towards fulfilling our aims. This will be achieved through:

- the co-ordinator visiting classes throughout the school;
- collecting a cross-section of exercise books to evaluate teaching and learning and monitor progression;
- formal mathematics meetings;
- informal discussions with staff;
- displays of work in a particular A.T. or area of Mathematics;
- regular reviews of the Numeracy Action Plan;

The evidence, which we gather through these monitoring procedures, will be evaluated regularly in order to inform future planning. We will try to ensure that the pupils' work is of a high standard and that these standards are evaluated, maintained or in some identified areas, improved. We intend to do this through:

- The sharing of learning intentions and success criteria;
- Class/topic/end of term tests;
- End of Key Stage assessment results;
- Formative assessment procedures;
- Internal standardization procedures;
- Formal and informal assessment undertaken as part of normal classroom teacher;
- Observation of practical activities;
- Discussion with pupils;
- NFER standardized test results;
- Quizzes and puzzles;
- Quality marking of pupils' work including discussion on areas of weakness and ways of improving ;(In line with Marking Policy).
- Use of the procedures as outlined in the school's Assessment, Recording and Reporting Policy;
- Regular, detailed and comprehensive information given to parents about a pupil's achievement and progress.

SUBJECT LINKS/ICT/CROSS-CURRICULAR THEMES

Mathematics contributes to many other subjects of the curriculum. Other subjects can provide the opportunity to develop and enhance mathematical skills and knowledge. Mathematics also makes a significant contribution to the development of more general skills such as communicating, reasoning and problem solving. Opportunities for developing Mathematics across other subjects and cross-curricular themes are being exploited and will be incorporated into the Schemes of Work.

ICT is an integral part of the planning and delivery of the Mathematics curriculum. Details of the part it plays in supporting the teaching and learning are included in the Scheme of Work with a list of software in the appendix.

HOME/SCHOOL LINKS

Parents will be kept informed of the progress of their children and how to participate in their education. They will also be made aware of issues of interest to them concerning developments within the school on the wider education field. This will be done through:

- written report, i.e. annual Pupil Profile for each child in Years One-Seven
- meetings;
- parent/teacher interview in Term One
- informative and helpful remarks when marking work;
- well chosen homework activities;
- open days, displays of work;
- competitions

DIFFERENTIATION AND EQUAL OPPORTUNITIES

Staff will provide a differentiated learning environment, which takes account of:

- high, under and low achievers;
- children with special educational needs.

In line with the Code of Practice, the special needs of individual pupils will be catered for through consultation with parents, pupil, SENCO, Mathematics Co-ordinator and other appropriate agencies. To ensure early intervention when needed, we will monitor the progress of all pupils on a daily basis.

THE WAY FORWARD

The staff were involved in Numeracy Cohort 2. All teachers who were on the staff at this time completed training provided by the Mathematics Support Service. The Mathematics Policy was reviewed by the whole staff in April 2003.

An update of the Policy took place in April 2008. Due to a change in personnel, the new Maths Co-ordinator, Mrs C Mc Cartney, reviewed the Policy in October 2008. The Co-ordinator updates the Policy annually.

The Co-ordinator will meet with the Principal and all staff to draw up an Action Plan. The Action Plan will set out our targets, how and when we will achieve them, the personnel involved and how we will monitor and evaluate our success.

Appendix

Year One

1. 123 CD

Wizit's number workshop

- Counting out loud
- Hide and seek
- Count with Wizit
- More or less
- How many now?
- Wizit's basket
- How many?

Wizit's number fun

- One bun in the sun
- One, two, come on you
- Ladders and slides
- Dress the teddies

2. All About Number at Level 1

- Counting Book
- Counting Activities
- Reading Numbers
- Ordering
- Patterns
- Adding
- Taking Away
- Number Talk

3.Painter- Draw simple shapes

4.Bee Bot- Move forwards/backwards

5.Database-Sort

6.Website

- www.bbc.co.uk/cbeebies

Year Two

1. 123 CD

Wizit's number workshop

- Counting out loud
- Hide and seek
- Count with Wizit
- More or less
- How many now?
- Wizit's basket
- How many?

Wizit's number fun

- One bun in the sun
- One, two, come on you
- Ladders and slides
- Dress the teddies

2.Thomas the clown

- Ice-cream break
- Thomas the Postman
- Strawberry Garden
- Building blocks
- Funny Faces

3.All About Number-Level 2

- Counting
- Reading Numbers
- Comparing
- Adding
- Taking Away
- Doubles and Pairs
- Estimating

4.Painter- Draw shapes, experiment with simple symmetry.

5.Bee Bot-Move forwards/backwards.

Use simple sequences.

6.Database-Sort

Year Three

1. Number Train

- Ordering Numbers
- Odd and even numbers
- Place Value
- Counting in twos
- Addition as counting 2/3 sets
- Subtraction as taking away
- Addition as counting on

2. Thomas the Clown

- Building blocks
- Strawberry Garden

3. Let's Go with Katy

- Let's go to the garden
- Let's go to the park
- Let's go to the Zoo

4.Trudy's Time and Place House 1.0

- Jelly bean hunt
- Calendar clock

5.Counting Pictures

6.Pick a Picture2

7.RM Starting Graph 2.0

8.First Workshop 1.0

9.Bee Bot

10. Websites-

www.bbc.co.uk/bitesize

www.woodlands-junior.kent.sch.uk

www.topmarks.co.uk

Year Four

1. My World

- Hundred Square

Investigate numbers to 100-number patterns etc.

- Tiles
- Blocks 1
- Sorting

2. Life Skills-Time and Money 1.0

- Home Sweet Home
- Sports Time
- Whizz Club
- Clocktower
- Coin Hopper
- Supermarket
- Luncherama

4. Painter

Draw shapes, experiment with simple symmetry.

5. RM Starting Graph 2.0

6. First Workshop 1.0

7. Websites

- www.primaryresources.co.uk
- www.sparklebox.co.uk
- www.ngfl.morthumberland.gov.uk
- www.kented.org.uk/ngfl
- www.bbc.co.uk/schools
- www.coxhoe.durham.sch.uk

Year Five

1.Number Works 1.0

(Twenty-one different number activities)

2.Lifeskills-Smart Spender 2.0

- Room for change
- Globetrotter
- Pizzeria
- Ice Cream Van
- Lunchbox
- Monkey Puzzles
- Money Machine

3.Life Skills-Time and Money 1.0

- Home Sweet Home
- Sports Time

- Whizz Club
- Clocktower
- Coin Hopper
- Supermarket
- Luncherama

4. My World

Hundred Square

5. Painter

6. Trudy's Time and Place House 1.0

- Time Twins
- Calendar Clock

7. RM Starting Graph 2.0

8. CD Rom- Maths Factory (Collins)

9. Website

- www.primaryresources.co.uk

Year Six

1. Number Works 1.0

(Twenty-one different number activities)

2. My World

Hundred Square

3. Lifeskills-Smart Spender 2.0

- Room for change
- Globetrotter
- Pizzeria
- Ice Cream Van
- Lunchbox
- Monkey Puzzles
- Money Machine

4.Life Skills-Time and Money 1.0

- Home Sweet Home
- Sports Time
- Whizz Club
- Clocktower
- Coin Hopper
- Supermarket
- Luncherama

5.Painter

6.Information Workshop 2000

7.Websites

- www.mymaths.co.uk
- www.mathszone.co.uk
- www.bbc.co.uk/schools/websites/4-11

- www.mathplayground.com
- www.mathsnet.net/
- www.teachingtime.com
- www.primaryresources.com
- www.woodlands-junior.kent.sch.uk/
- www.topmarks.co.uk
- www.coolmath4kids.com
- www.loders.dorset.sch.uk/HomeSchool/witches/problemsolv.htm
- www.starmatica.com/standalone/starrMatica3DEarthExploration.swf
- www.mathsphere.co.uk/resources/MathsSphereMathsPuzzles.htm
- www.coxhoe.durham.sch.uk/Curriculum/Numeracy.htm
- www.standards.dfes.gov.uk/primary/publications/mathematics/ablepupilschallenges/

Year Seven

1. Number Works 1.0

(Twenty-one different number activities)

2. My World

Hundred Square

3. Lifeskills-Smart Spender 2.0

- Room for change
- Globetrotter
- Pizzeria
- Ice Cream Van
- Lunchbox
- Monkey Puzzles
- Money Machine

4. Life Skills-Time and Money 1.0

- Home Sweet Home

- Sports Time
- Whizz Club
- Clocktower
- Coin Hopper
- Supermarket
- Luncherama

5.Painter

6.Information Workshop 2000

7.Websites

www.primaryresources.co.uk

www.topmarks.co.uk

www.multiplication.com/small

www.bbc.co.uk/schools

www.teachingtime.com

www.woodlands-junior.kent.sch.uk/

Other Resources

**Each classroom has an
Interactive Whiteboard and a
new I.C.T suite was officially
opened on 3/12/08.**

