

# Fairisle Infant and Nursery School



## **MATHEMATICS POLICY**

Date policy reviewed: March 2021

To be reviewed: March 2023

Ratified by the Governing Body:

Signature: *Joseph*  
3.3.21

## **Fairisle Infant and Nursery School**

### **Mathematics Policy**

“All children have a right to an education” Article 28

“Education should develop each child’s personality and talents to the full” Article 29

United Nation Convention on the Rights of the Child

Mathematics is a tool for everyday life. It is a network of concepts and relationships which provide a way of viewing and making sense of the world. It is used to analyse and communicate information and ideas and to tackle a range of practical tasks and real life problems, which emphasise the development of mathematical language, understanding and skills.

#### **Aims**

It is our aim for children learning within the Early Years Foundation Stage and Key Stage 1 National Curriculum:

- To understand the importance of mathematics and its relevance to everyday life.
- To develop a positive attitude towards mathematics.
- To develop confidence in understanding and using mathematical vocabulary as a way of communicating information and ideas.
- To develop an ability to solve mental and written problems in a range of contexts, to reason, to think logically and to work systematically.
- To feel confident in using a range of methods and equipment to support their independent problem solving.
- To be surrounded by an environment that fosters and supports their growth as mathematicians.
- To use ICT to support their learning of mathematical concepts.
- To have a firm understanding of the basic concepts of mathematics.
- To apply their mathematical skills, knowledge and understanding across the curriculum.

Through careful planning and preparation, we aim to ensure that mathematics is presented in a range of ways to support all styles of learning. Throughout our school and nursery, children are given opportunities to explore mathematics through:

- Practical activities and mathematical games; inside and outside of the classroom
- Role play
- Problem solving challenges, games and investigations.
- Individual, paired, group and whole class discussions and tasks.
- A range of strategies - e.g. mental, written, practical.
- ICT as a mathematical tool.

## **Mathematics – policy into practice.**

At Fairisle Infant and Nursery School we will:

- Teach mathematics in a way that is engaging and where children are challenged to think.
- Foster children's self esteem as mathematicians.
- Develop mathematical understanding through contextual, practical and play based learning as appropriate.
- Provide a variety of structured concrete experiences, related to the children's own experience.
- Build on children's prior knowledge to support their learning of new concepts.
- Model the use of appropriate mathematical language during direct teaching, discussions and plenaries across a range of curriculum areas.
- Demonstrate how mathematics can be used to solve real life problems, using a range of strategies.
- Ensure the teaching and learning matches children's individual needs
- Provide opportunities for the children to work independently, as a group or collaboratively as a class.
- Give feedback to children's responses both verbally and in writing.
- Provide opportunities for children to reflect on and evaluate their learning.
- Discuss with the children the next steps in their learning.
- Ensure that children present their working out in a clear way.
- Provide opportunities for children to correct their work and give next steps to further aid their learning

## **The Foundation Stage**

At Fairisle Infant and Nursery School children in the Foundation Stage (Year N and Year R) are taught following the Early Years Foundation Stage Curriculum.

They are given frequent opportunities to develop and apply their understanding of early mathematical concepts and vocabulary through a wide range of play based contexts and number rhymes/songs, related to everyday situations.

## **Assessment and Recording**

In the Foundation Stage:

Progress is tracked using online Learning Journals through Tapestry in both Nursery and Reception classes, and through data collection based on the Foundation Stage Curriculum.

- Nursery/Year R – photographs, observations and home learning which show mathematical curiosity and learning, as well as evidence of practical problem solving are uploaded to each child's online Learning Journey on Tapestry.
- Year R – Learning that takes place in directed activities is kept in each child's folder and in their maths book.

In Key Stage 1:

Progress is tracked using the National Curriculum (2014) objectives and the Assessment guidance.

For children not yet achieving working towards the expected standard (WTS), the Pre Key Stage 1 standards (PKS) 1-4 then the P scales 1-4.

- Teachers use AFL daily. They evaluate success of lessons each day and review the level of understanding of the children and the learning achieved. Teachers then decide whether children need to move on, or consolidate current learning.
- Tracking takes place each term on an Excel spread sheet. Issues related to progress are discussed in consultation with the Headteacher as part of Pupil Progress meetings and next steps to support further progress are identified and addressed.
- Children in Key Stage one are 'set' according to ability to ensure that they receive the correct steps to ensure their good level of progress. However, due to pandemic and risk assessment in place during 2020/2021, classes are not set and are being taught in groups in their classrooms.
- In Year 2 teachers use the Standard Attainment Tests, to support their judgements with regards to pupil attainment. Due to the pandemic, the test for Key Stage One have been cancelled for 2021 but the Teacher Assessment remains.

### **Parental Involvement**

At Fairisle Infant and Nursery School we recognise the importance of including parents in their children's learning.

### **The Early Years Foundation Stage**

Progress in number is reported to Year N and Year R parents half termly and their overall progress in Mathematics is formally reported in the Summer term.

### **Key Stage One**

Progress in Maths is reported to parents mid year and end of year, using data gathered as part of ongoing tracking and Key Stage one assessments.

### **Equal Opportunities**

At Fairisle Infant and Nursery School we recognise that all individuals are different. We recognise that we must take account of the ethnicity, background and needs of all children. We provide differentiated support to enable children to develop their individual skills in Mathematics. Specific materials, methods and opportunities are available to those learners who need them and progress is closely monitored.

### **Monitoring and Evaluation**

The Mathematics Subject Leader monitors during the year in the following ways:

- Classroom observations of the teaching of Mathematics.
- Pupil Conferencing – talking to children about their work in Maths/attitude to Maths.
- Work sampling of Tapestry and Maths books.
- Monitoring of planning.
- Moderation of Maths samples with Year Team colleagues and as a teaching staff.
- Tracking progress of groups of children from each class, using Excel documents and the data that has been created from them.
- Analysing Tracking Data/end of year Data and reporting to Senior Leadership team, and Governors as part of Subject Leaders Report.
- Analysing end of year Data and reporting to Governors.

Policy reviewed: March 2021

Next review: March 2023

