



Glen Hills Primary School

Mathematics Policy

Intent

The intentions of the Mathematics curriculum at Glen Hills are as follows:

- To encourage all children to see Mathematics as a subject that they enjoy and can achieve in.
- To give each pupil a chance to believe in themselves as mathematicians and develop the power of resilience and perseverance when faced with mathematical challenges.
- To show that Maths is an essential part of everyday life and to relate the topics the children are learning to real life whenever possible. This will help to ensure that the children see the relevance of what they are learning.
- To encourage the children to develop their own mental strategies for solving problems and to be confident in this area. Rapid recall of number bonds and tables facts is an essential tool for many mathematical tasks and we aim for our children to be able to achieve this.
- To show that communication is an important element of mathematical understanding. Children will be given as many opportunities as possible to describe, predict and explain using mathematical language and ideas.
- Whenever possible links will be made with other subjects to encourage awareness of how mathematics pervades all elements of our lives and to prevent it being viewed in isolation
- Links will also be made with other cultures and periods of history so that the children become aware of Maths being studied over time and across the world.

Teaching Mathematics

1. Teaching time

All children will have access to a daily Mathematics lesson. This lesson may vary in length but will usually last for 45-50 minutes in key stage one and 50-70 minutes at key stage two.

Children in Foundation stage will have daily maths sessions in half or full class groups which will last for up to 30 minutes by the summer term.

Maths will also be used wherever possible in other subjects so that the children can develop and apply their mathematical skills, e.g. the use of timelines in history and measuring in science.

2. Class Organisation

During the daily maths lesson there will be a mixture of whole class teaching, group work and independent practise. The approach and structure to the lesson will be decided by the teacher to best achieve the lesson objectives.

A typical lesson in years 1-6 may be structured like this:

- Retrieval work (5 – 10 minutes) – in all maths lessons (see 3. Retrieval activities)
This will involve the whole class in revising previous learning.
- Main Teaching Activity (30 – 40 minutes)
This will be a mixture of whole class, group and individual work.
- Plenary (5 – 10 minutes)
This will involve the whole class in summarising the lesson, identifying problems that have arisen or perhaps setting a problem extending what has been taught.

This is only an example of how a lesson could be structured. Teachers will plan and deliver lessons in the most appropriate way to meet the objectives of the lesson.

3. Retrieval activities

All Maths lessons begin with a retrieval activity linking to previous learning in that week, year group and/or previous year groups.

In addition, each class (Year 1-6) completes 'Fluent in Five' maths activities on a daily basis. These are daily arithmetic activities tailored to each year group designed to improve mathematical fluency by practising for 5 minutes each day (Third Space Learning).

3. Written Methods

All staff follow the school's calculation policy which was updated during academic year 2022/23.

4. Homework

The daily maths lesson will be extended by out of school activities or homework. This may take a variety of forms; a mental task such as learning number bonds or tables facts, further practice of a skill or method taught in a lesson or a practical activity that the children can carry out at home. These activities will be relevant to and drawn from the work the children have done in school.

5. Links between Maths and other subjects

As already stated in this document, links will be made wherever possible to other subjects in the curriculum so that children get an idea of how maths can contribute to many areas and ensure that it is not seen in isolation.

School and Class Organisation

All pupils are to have access to the Maths Curriculum regardless of ability, race, gender, cultural background or any physical or sensory disability in line with the DDA 2005.

In the case of physical or sensory disability, the school will endeavour to provide specialist apparatus or computer software to enable every child to have full access.

The teaching staff will consult the SENDCO whenever they have concerns about a child's progress in Maths. The SENDCO may decide to carry out specific assessments and if necessary place the child on the SEND register or consult outside agencies for further advice and support.

As teachers it is important to realise that a child with a difficulty in reading may be able in maths and ensure that difficulties in reading do not hinder mathematical progress.

It is important to ensure that resources allow all children to show their mathematical knowledge and ability and that those children with reading or recording difficulties are not prejudiced.

How we cater for children of differing abilities

At present most of the children from the foundation stage to year five are taught in whole class groups. Less and more able children are identified and supported or extended as appropriate.

In each year group, certain children may also be part of a short Maths intervention session at other times of the day. This may just be a single session to go over a particular lesson with a child/children or it may be a series of sessions to support a small group of children.

All children will be challenged during Maths lessons. However, more able children will be given further activities to do which deepens their Mathematical understanding. Those children working at Greater Depth in years 5 and 6 will also be given the opportunity to take part in either the Mathematical Association Challenge which is a national competition or a Year 6 interschool Maths Quiz (organised by Symphony Learning Trust).

Children with Special Educational Needs

All children benefit from being included in the oral elements of a lesson and watching and listening to other children explain their methods and reasoning and demonstrating their methods.

Where pupils have severe difficulties they may have additional support.

Foundation Stage

The Early Years Framework became law in September 2021. The Early Years Handbook provides guidance about programmes of study. At Glen Hills, we use White Rose Maths Scheme to develop our planning. Non-statutory 'Development Matters' guidance offers a view of how children develop and learn. Pupils are assessed against the Early Learning Goals (ELG) at the end of their academic year in Reception. The Mathematics ELG's are Number and Numerical Pattern. Pupils are assessed as either ELG emerging or expected.

Mathematical understanding is developed through stories, songs, games, imaginative play as well as more formal teaching methods. Mathematical vocabulary is modelled during the daily routines and throughout adult led activities. There is an effective balance of adult led learning experiences and opportunities for the children to initiate and develop their own mathematical learning.

Opportunities are provided for the children to revisit and consolidate their learning in a variety of contexts.

Mathematics is embedded within and supports all the 7 areas of learning in the foundation stage.

These areas of learning are:

- Personal, Social and Emotional Development
- Physical Development
- Communication and Language
- Literacy
- Mathematics
- Understanding of the World
- Expressive Arts and Design

The children learn in a variety of contexts which includes using the outdoor environment for teaching and learning mathematics whenever possible.

Information Technology (IT)

Wherever possible IT will be used to support teaching and to motivate and improve children's learning.

IT is fully integrated into medium- and short-term planning.

IT will include the use of computers by the pupils. It may also include the use of calculators especially in years 5 and 6.

The use of computers will often involve the teacher in using a specific teaching aid such as the DofE produced ITPs. However, the children should also have the opportunity to use the computer as often as possible to practise their individual skills and improve their computing capability.

The school has an annual subscription to TimesTables Rockstars (TTRS) and White Rose Maths. These are sites which combine teaching materials for use in class with practice tasks for children which can be set as homework or completed as part of the Maths lesson. All children from Year 2 upwards are asked to use TTRS at home as well as in school to practice their times tables. The school takes part in a number of interclass and interschool challenges organised by TTRS.

Calculator use does not form part of the Curriculum and their use is not recommended for children prior to entering years 5 and 6. However, teachers may wish to use them to enable children to handle more complex numbers or problems especially when using maths in other subjects such as calculating average rainfall in Geography.

Resources

The use and management of resources are an important element in effective maths teaching. The Maths leader is responsible for ordering and maintaining resources throughout the school in liaison with individual class teachers.

Resources are mainly kept in year group bases with some larger items being shared across year groups

Glen Hills does not follow a specific maths scheme and staff work together to create a scheme of work that is relevant to our children and covers the objectives required by the curriculum. This scheme of work is supplemented by resources from publishers such as White Rose and NCETM

An increasing amount of maths resources are ICT based, either purchased software or web-based such as Top Marks, MathsFrame or Mymaths.

Assessment

Assessment will take place at three levels:

- short-term
- medium-term
- long-term

These assessments will be used to inform teaching and future planning.

Short-term assessments

This mainly involves informal assessment during lessons to check children's understanding.

Medium-term assessments

There should be regular opportunities planned to assess the children's understanding of the objectives covered. This should relate to the children's targets (see below) as well as their performance against age related expectations

Long-term assessments

These are more formal assessments which take place at least twice a year to review and record pupil's progress. These will be made through:

- Foundation Stage Assessments (Sept and June)
- Formal testing by teachers in Years 1-5 once a term. This is currently done using the NTS test materials
- National Key Stage Two Tests for Year 6 (May)

Results from these are analysed by the Head Teacher, Maths leader and SENDCO to set targets for the forthcoming year.

Targets

All teachers use target setting to track children's progress, inform their teaching and raise standards.

In the foundation stage the children are working towards the Early Learning Goals.

Where ever possible, the children should be involved in their own assessment so that they are aware of the progress that they are making

SEN children will have specific targets relating to their needs.

Planning, Developing and Monitoring the Maths Curriculum

The School Development Plan

The plan for developing the maths curriculum and managing changes is outlined in the SDP. This is updated annually by the Head teacher after consultation with teaching staff and the governing body.

Curriculum Planning

The Maths Coordinator will produce maths progression maps to enable staff to plan the curriculum. Staff will produce medium- and short-term plans which are monitored by the Head Teacher and Coordinator.

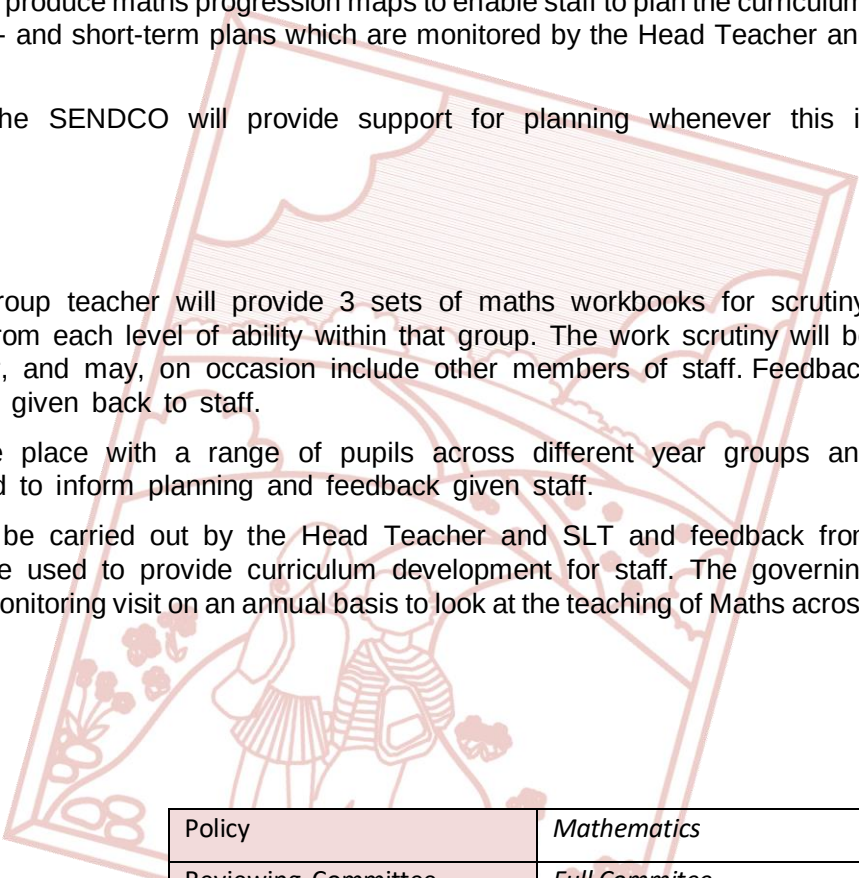
The Maths leader and the SENDCO will provide support for planning whenever this is necessary.

Work Scrutiny

Each term every class/group teacher will provide 3 sets of maths workbooks for scrutiny. These will include work from each level of ability within that group. The work scrutiny will be undertaken by the leader, and may, on occasion include other members of staff. Feedback resulting from this will be given back to staff.

Pupil interviews will take place with a range of pupils across different year groups and abilities. This will be used to inform planning and feedback given staff.

Lesson observations will be carried out by the Head Teacher and SLT and feedback from these observations will be used to provide curriculum development for staff. The governing body will also carry out a monitoring visit on an annual basis to look at the teaching of Maths across the school.



Policy	<i>Mathematics</i>
Reviewing Committee	<i>Full Committee</i>
Last Reviewed	<i>Nov 2025</i>
Ratified by Governing Body	19/11/25