

…those who hope in the LORD will renew their strength.

 They will soar on wings like eagles; they will run and not grow weary, they will walk and not be faint.’ Isaiah 40:31

**connect | nurture | aspire | learn | excel | hope**

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**** Charing Church of England Primary School

**Mathematics Policy**

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| Document Information  | Date/source of Policy  | Responsibility  |
| Date of review  | January 2024 | Maths team |
| Date of new review  | September 2024 | Maths team |

Our Vision

**Living and learning with faith, friendship and fun**

Charing School is an inclusive family, proud of our faith in God and our friendship with our community. We develop respect, aspiration, curiosity, tolerance and determination. We are a creative, compassionate and confident team.

**School Aims and Objectives**

Charing CE Primary School aims to enable all children the opportunity to achieve their best academically, emotionally and socially through:

 Providing high quality learning to enable children to acquire the skills, knowledge and concepts relevant to their future;

 Promoting an ethos of care, mutual respect and support, where effort is valued and success celebrated;

 Enabling children to become active, responsible and caring members of the school and wider community.

The school works towards these aims by:

 Promoting high quality learning and attainment for all;

 Providing high quality curriculum entitlement and a high quality learning environment;

 Promoting the Christian Values to enable the children to value themselves and each other; the Core Values are: confidence, friendship, determination, faith, respect.

 Promoting an effective partnership with parents and the wider community.

**School’s Maths Vision Statement**

The basic skills of mathematics are vital for the life opportunities of our children. Our aim is for all children to think mathematically, enabling them to reason, solve problems and take risks in choosing a method to solve problems. At Charing Primary School, we are developing a Maths Mastery curriculum to ensure every child can achieve excellence in Maths through fluency, reasoning and problem solving. We aim to enable children to experience a sense of awe and wonder as they solve a problem for the first time, discover, different solutions and make links between different areas of Mathematics. We aim to ensure children have a deep understanding of the subject through a concrete, pictorial and abstract approach to enable pupils to fully understand what they are learning.

**Implementation of the Mathematics Policy**

**1. The National Curriculum for Mathematics (Programmes of Study)**

 Charing CE Primary School teach the child and not just the curriculum.

 Teaching and learning is differentiated to best match the needs of the class and the individuals within it.

 If the needs of the children are best met following an alternative plan, which deviates from the long term planning, then the class teacher and maths lead discuss this and decide on a way forward.

**2. Lesson organisation**

**Preschool**

See separate document on maths page

**Early Years Foundation Stage**

In the Foundation Stage (FS), teaching is planned through adult supported teaching and learning. Daily opportunities to informally develop mathematical understanding through child-initiated activities and routines are capitalised upon.

**KS1 and KS2**

 Maths is taught for an hour and 5 minutes spread over two halves. The first 35 minutes follow a ‘teach do’ approach where children are taught new learning. The second half (30 minutes) involves children deepening and extending their understanding of the new learning, followed by a review section which aims to recap any previous learning taught over the current year.

 Children are taught mathematical concepts where understanding and achievement for all is at the heart of teaching and learning. Lessons comprise of fluency, reasoning and problem solving although not hierarchical. The focus of every lesson is not on finding the answer, it is on how we get there.

Mastering Number – **KS1** are taking part in NCETM’s Mastering Number Programme. This project aims to secure firm foundations in the development of good number sense for all children from Reception through to Year 1 and Year 2. As part of this programme there is a daily teaching session for all children in KS1 for 10 to 15 minutes, in addition to their normal maths lesson.

**3. Planning formats**

 Weekly planning format follows the structure of the daily maths lessons. Each year group’s long term planning is based on the White Rose scheme of learning which follows details and expectations set within the National Curriculum 2014.

 Long term planning for all year groups are available to access via White Rose Maths’ website.

**4. Calculation Policy**

 We follow White Rose maths’ calculations policy which are available to access on our school’s website.

**5. Cross curricular**

 Opportunities are used to draw mathematical experiences out of a range of activities in other subjects, such as in PE, Science and at other opportunities to enable children to apply and use Mathematics in both real life and academic contexts.

**6. Provision for Teaching for Mastery**

 Greater depth children are challenged further using material from The NCETM alongside White Rose Maths.

**7. Resources**

 The use of Mathematics resources is integral to children’s learning and thus planned into our learning and teaching.

 As our pupil numbers have grown considerably over the last few years, we are in the process of acquiring more maths manipulatives and good quality equipment and resources to support our learning and teaching.

 These resources are used by our teachers and children in a number of ways including:

a) Demonstrating or modelling an idea, an operation or method of calculation, e.g.: a number line; place value cards; dienes; money or coins; measuring equipment for capacity, mass and length; bead strings; tens frame; the interactive whiteboards and related software; 3D shapes; multilink cubes; clocks; protractors and individual whiteboards and pens; amongst other things;

b) Enabling children to use a calculation strategy or method that they couldn’t do without help, by using any of the above or other resources as required; and

 Standard resources, such as number lines, multi-link cubes, dienes, hundred squares, shapes, etc. are located within individual classrooms.

 Resources within individual classes are accessible to all pupils and are clearly labelled. They are encouraged to be responsible for their use.

 Further resources (often larger items shared by the whole school)

 Teachers are encouraged to use the school playgrounds as an outdoor classroom when possible, for example, when teaching length, area or perimeter.

 Each teacher has access to *White Rose premium resources* and *Target Your Maths* for a variety of learning tasks. They also have access to high quality mastery resources on NCETM and NRICH websites.

**10. Homework** (please refer to the School’s Homework Policy)

 Mathematics homework is set for all children every week.

 Homework provides opportunities for children to: practice and consolidate their skills and knowledge; develop and extend their techniques and strategies; and prepare for their future learning through out of class activities and homework.

**11. Parents/Carers**

 The School aims to involve parents/carers in their children’s learning as much as possible and to inform them regularly of their child’s progress in Mathematics.

 Parents/carers have the opportunity to meet with child’s class teacher formally

 Information about their child’s standards, achievements and future targets in Mathematics is shared with parents/carers at these times and also ways that parents/carers may be able to assist with their child’s learning.

 Parents/carers are encouraged to support their children with homework.

**12. Subject Leader**

 The role of the Subject Leader is to provide professional leadership and management in Mathematics in order to secure high quality teaching, effective use of resources and high standards of learning and achievement for all pupils.

 The subject leaders take directive from the school SIP in order to develop the subject action plan with clear aims and targets.

 They will achieve this by affecting the following key areas: subject related strategic direction and development; learning and teaching (including planning, marking and presentation)

 The Subject Leader has regular discussions with the Head Teacher and other senior leaders about learning and teaching in Mathematics and provides an overview about their work as Subject Leader and an evaluation of the strengths and areas for development for the subject.

**The Mathematics Lesson: Good Practice**

 The Learning and Teaching Policy identifies the aims, principles and strategies for promoting effective learning and teaching at Charing CE Primary School. These apply to learning and teaching in Mathematics as well as every other curriculum subject area.

 In Mathematics the overall structure of the lesson will generally be the same (as described under ‘Implementation of maths policy -Lesson Organisation’ on page 3)

**Assessment, Record Keeping and Reporting (please refer to the School’s Assessment and Teaching and Learning Policies)**

 Children’s standards and achievements in Mathematics are assessed in line with the School’s Assessment Policy.

**Foundation Stage**

1. Reception Class practitioner’s ongoing observational assessments made early in Autumn Term 1 ascertain a baseline which then informs subsequent teaching and learning for each child.
2. Future attainment is noted using photographs and observational notes. Progress is recorded in each child’s Learning Journey and the next steps to be taken are identified. Progress is monitored termly.
3. Statutory assessments are made on entry and on exit of the FS.

**KS1 and KS2**

1. On-going Assessment for Learning (AfL) practices within class and group sessions, including the sharing of and reference being made to Learning Objective and Next Steps and self and peer assessments of understanding, outcomes and progress;

2. Marking of children’s work; against the shared Learning Objective and for accuracy of answer (for all written work) and diagnostically (regularly in line with School expectations) including clear next steps to consolidate or progress the child’s Mathematical understanding;

3. At the end of each half term teachers are expected to make an overall assessment of pupil’s achievements using the school’s assessment system;

4. There are formal teacher assessments each half term against National Standard expectations for Mathematics and these are recorded within the School’s electronic assessment system. Pupils are assessed as being Beginning or Beginning+ at National Standard, Developing or Developing+ against National Standard, or Secure or Secure+ National Standard. Some children may be well below National Standard and are assessed using a lower year group’s criteria.

 Small end of unit assessments are used periodically by teachers to evaluate learning and inform teaching and by teachers and senior leaders within the Accountability Process to evaluate individual and groups of children’s standards and achievements and provision and to inform future provision and school development.

 Assessment information for Mathematics, both standards and achievements, are shared with parents/carers at Parent Consultation Meetings. Mathematics is reported on in detail in each child’s School Report; which includes information about the next steps for learning in the subject.

**Inclusion (please refer also to the School’s Inclusion Policy)**

 Inclusion is about every child having educational needs that are special and the School meeting these diverse needs in order to ensure the active participation and progress of all children in their learning.

 Successful inclusive provision at Charing CE Primary School is seen as the responsibility of the whole school community, permeating all aspects of school life and applicable to all our pupils. It is in this way that we will turn the rhetoric into reality.

 Inclusive practice in Mathematics should enable all children to achieve their best possible standard; whatever their ability, and irrespective of gender, ethnic, social or cultural background, home language or any other aspect that could affect their participation in, or progress in their learning.

**Monitoring and Review**

 The Head teacher, Senior Leadership Team and Mathematics Subject Leader will monitor the effectiveness of this policy on a regular basis. The Head teacher and Mathematics Subject Leader will report to the governing body on the effectiveness of the policy at least annually and, if necessary, makes recommendations for further improvements.

**Role of the Governors**

 Governors will:

a) Meet with the Mathematics Subject Leader at least once a year to find out about;

* the school’s systems for planning work, supporting staff and monitoring progress;
* the allocation, use and adequacy of resources; and
* how standard of achievement are changing all the time.

b) Visit School and talk to pupils about their experiences of mathematics;

c) Promote and support the positive involvement of parents in mathematics;

d) Attend training and other events relating to the mathematics curriculum;

e) Report jointly with the Subject Leader, both for the School Prospectus and to the governing body with recommendations, if appropriate, once a year.

 To be understanding and supportive of our aims in the learning and teaching of mathematics and to review this policy annually.