



2024/2025

Crosshouse Primary School & Early Learning & Childcare (ELC)

Numeracy & Mathematics Strategy



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'Mathematics is important in our everyday life, allowing us to make sense of the world around us and to manage our lives. Using mathematics enables us to model real-life situations and make connections and informed predictions. It equips us with the skills we need to interpret and analyse information, simplify and solve problems, assess risk and make informed decisions.'

Education Scotland



At Crosshouse Primary School, we provide an inclusive community, where learners can achieve success for today and prepare for tomorrow by attaining, believing and achieving. For all learners to achieve their full potential, they must receive high quality learning experiences which are engaging, relevant, personalised and creative.

This strategy will outline the ways in which we ensure all learners have access to meaningful learning experiences which enable them to demonstrate progress in their skills in Numeracy and the ways in which we encourage active involvement of parents and carers in the learning of all learners.

What does Numeracy & Mathematics look like at Crosshouse Primary School?

Children are at the heart of an excellent lesson at Crosshouse Primary School. Effective planning is key to facilitate high quality learning experiences for all and to provide opportunities for the development of skills for learning, life and work. The structure of an effective lesson in Numeracy & Mathematics at Crosshouse is as follows:-

An Excellent Lesson

- Interactive Mental Number Session (10/15 minutes per day)
- Sharing of Learning Intentions
- Modelling of concepts and skill development (a variety of teaching and learning approaches will be used)
- Co-construction of Success Criteria
- Differentiated Direct Teaching
- Learner Activities (using a range of resources and task boards to allow for personalisation and choice)
- Assessment
- Learning Review (used to identify next steps in learning)

The above structure may vary in our infant/junior classes, where a more play-based approach is adopted. Learners use play and exploration to develop a range of numerical and mathematical skills.

Planning for Teaching and Learning

Teachers use a variety of tools to plan short and long term. SLC Numeracy & Mathematics Pathways are used to ensure teaching is progressive and relevant. Crosshouse Pathways are then used to ensure breadth and depth of learning across a level. Termly plans are also used to ensure long term planning includes a range of skills, concepts and a good coverage of benchmarks. Our school is not driven by one resource and teachers can access a range of resources to support learning and

teaching. Concrete materials are encouraged to be used at all stages to help develop number sense. All resource for Numeracy and Maths can be found via the Resource Map.

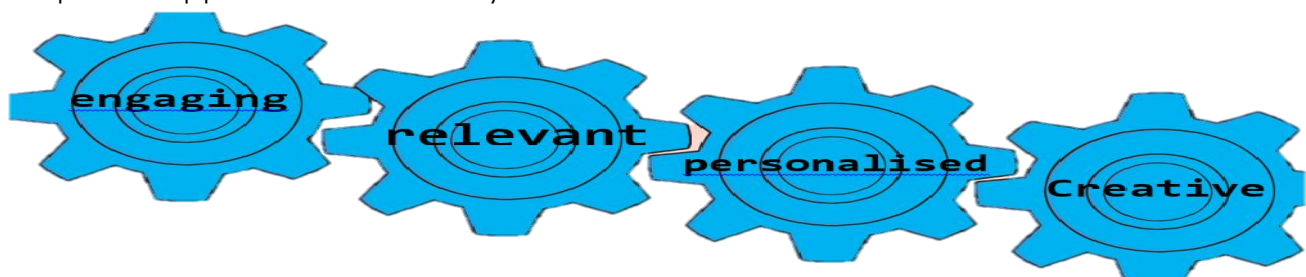
Learning and Teaching Approaches

We deploy a variety of approaches to allow our learners to experience breadth, depth and challenge within all aspects of Numeracy and Mathematics, including:

- Taking account of the VCPA approach at all stages of learning
- Developing a sound understanding of numeracy and mathematics using active and interactive resources where appropriate
- Explicitly teach 'mental strategies' to develop confidence and accuracy in mental agility
- The use of effective questioning and feedback which informs the next steps in learning
- Giving learners the opportunity to discuss their thought process and encourage them to share how they reach their solutions
- Engaging learners by making frequent links across the curriculum so that concepts and skills are being further developed by being applied in different relevant contexts
- Developing higher order thinking skills through problem solving skills
- Using a range of appropriate resources to support learning and teaching, ensuring a range of concrete and pictorial resources are central to new learning.
- Using a range of tracking and monitoring strategies to ensure the progress of all learners is being recorded and to ensure they are being suitably challenged/supported
- Using the moderation process to inform an holistic assessment of learning

Learning & Teaching

Our Learning & Teaching Policy was reviewed and developed in session 19/20 by learners, staff and parents/carers. It is based on 4 revolving, connecting cogs. We believe that the 4 cogs also underpin our approach to Numeracy & Mathematics at Crosshouse.



Learning in Numeracy & Mathematics enables learners to:

- develop a secure understanding of the concepts, principles and processes of mathematics and apply these in different contexts, including the world of work
- engage with more abstract mathematical concepts and develop important new kinds of thinking
- understand the application of mathematics, its impact on our society past and present, and its potential for the future
- develop essential numeracy skills which will allow them to participate fully in society
- understand that successful independent living requires financial awareness, effective money management, using schedules and other related skills
- interpret numerical information appropriately and use it to draw conclusions, assess risk, and make reasoned evaluations and informed decisions
- apply skills and understanding creatively and logically to solve problems, within a variety of contexts
- appreciate how the imaginative and effective use of technologies can enhance the development of skills and concepts

(Curriculum for Excellence, Numeracy & Mathematics Experiences and Outcomes)

Family Learning

We encourage parents/carers to take an active role in their child's learning in Numeracy and Mathematics. We provide parents with access to information about their child's progress and what they will learn next through Snapshot Jotters, Reports, Parents' Evenings, Family Learning Events such as the You+Me project, Let's Learn Together Events and Maths Week Scotland Events.

Weekly Numeracy & Mathematics home learning tasks (Count it) allow parents/carers an insight into what their child is learning each week. Active suggestions to practise skills at home are provided by class teachers.



The following links provide a range of materials to support you and your child –

Parentzone Scotland: I am a Mathematician -

<https://education.gov.scot/media/mgceqapz/iamamathematician040517.pdf>

Scotland Learns: Parent activities for numeracy and mathematics -

<https://education.gov.scot/parentzone/learning-at-home/supporting-numeracy/support-for-parents-on-numeracy-and-mathematics-methods-and-approaches/>

Parentzone Scotland: Supporting Numeracy at Home -

<https://education.gov.scot/parentzone/learning-at-home/supporting-numeracy/>

Parentzone Scotland: An Overview of the Numeracy and Mathematics Curriculum -

<https://education.gov.scot/parentzone/learning-at-home/supporting-numeracy/numeracy-and-mathematics-glossary/>

Parentzone Scotland: Numeracy and Mathematics Glossary -

<https://education.gov.scot/parentzone/learning-at-home/supporting-numeracy/numeracy-and-mathematics-glossary/>

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**Attain,
Believe &
Achieve**

