

Windyknowe Primary School



Numeracy and Mathematics



Respectful

Safe

Ready

Responsible





The Numeracy and Mathematics experiences and outcomes are split into 3 different areas. Throughout their time at primary school they will experience learning in the following areas:



Ready

Number, Money and Measure

- Estimation and rounding
- Number and number processes
- Multiples, factors and primes
- Powers and roots
- Fractions, decimal fractions and percentages
- Money
- Time
- Measurement
- Mathematics - its impact on the world, past, present and future
- Patterns and relationships
- Expressions and equations

Shape Position and Movement

- Properties of 2D shapes and 3D objects
- Angle, symmetry and transformation

Information Handling

- Data and analysis
- Ideas of chance and uncertainty

Responsible

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Throughout Numeracy and Mathematics lessons, children will be able to...



Ready

- Develop, use and apply a variety of mathematical strategies in a variety of contexts
- Take responsibility for their learning
- Explore number and mathematical concepts with confidence
- Develop problem solving skills across learning
- Develop quick recall of basic facts
- Understand and use mathematical language
- Use technology to support and enhance learning
- Identify the best method to solve a mathematical problem or calculation

Responsible



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Key features of numeracy and mathematics



Ready

- Lessons will have clear learning intentions and agreed success criteria
- Pupils are encouraged to select and apply processes
- Formative assessment strategies are used
- Appropriate pace of learning is in place and high expectations maintained
- Account is taken of pupils' prior learning
- Set standards of presentation
- Pupils are regularly given opportunities to solve problems
- Relevant and varied home learning is given regularly
- Good use is made of a wide variety of resources

Responsible



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Key features of numeracy and mathematics cont.



Ready

- Pupils are praised effectively to encourage and motivate them, and they are well supported according to their needs
- Good quality examples of pupils' mathematical work, recently completed, are prominently displayed
- Pupils are regularly reminded of the relevance and importance of the mathematical work to everyday life
- Pupils are encouraged to share responsibility for their own learning
- To encourage mathematical thinking

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An excellent Maths and Numeracy lesson looks like.....



Ready

- Concrete materials available
- A variety of individual, paired and collaborative tasks
- A balance of written, practical and oral tasks
- Opportunities to explore, investigate and solve problems
- Formative assessment strategies being used
- A plenary of learning being used to share strategies

Responsible



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An excellent Maths and Numeracy lesson sounds like.....



- Lots of questions and answers - teacher and child, child to child
- Lots of discussion - pairs, groups and whole class
- Children presenting, explaining and talking about methods
- Praise and encouragement given
- Controlled level of noise

Ready

An excellent Maths and Numeracy lesson feels like.....

- It is purposeful
- It is organised
- It is challenging
- It is satisfying and they have learnt something
- It has a varied format

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Role of the teacher.....

- To know the children's abilities and teach to them accordingly
- To communicate Learning Intentions clearly
- Set the pace of learning for each group
- To agree clear Success Criteria
- To ensure they accommodate all learning styles
- To ask questions to promote thinking

Role of the pupil.....

- To follow instructions
- To participate fully in the learning
- To ask questions
- To always try their best
- To work independently wherever possible
- To approach tasks with a positive attitude
- To support and share whenever possible/appropriate

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Role of the PSW.....

- Keep children on task
- To praise and reward
- To report progress to the teacher
- To ask questions to promote thinking
- To motivate pupils

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Examples of resources used in school to support Numeracy and Maths



Numicon



The five minute number box



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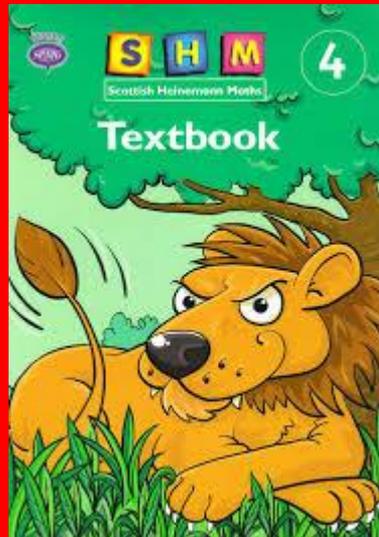


Examples of resources used in school to support Numeracy and Maths



Ready

Scottish Heinemann Maths



Heinemann Active Maths



TeeJay Maths



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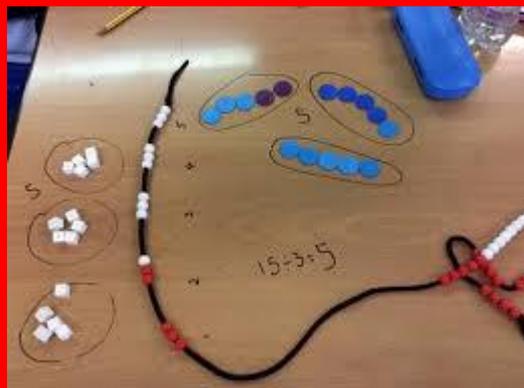
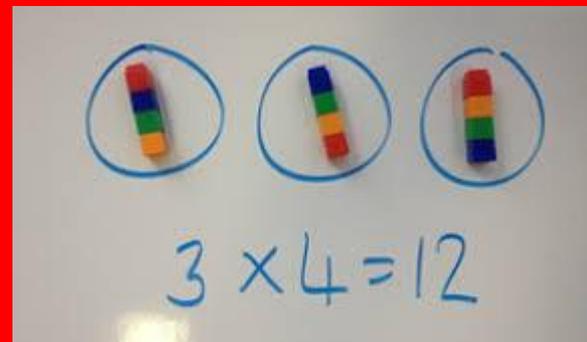




Examples of resources used in school to support Numeracy and Maths



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Examples of ICT resources to support Numeracy and Maths

Sumdog

Teachers will create class groups and then will grant the children access. **Sumdog** is a way for kids to practice math skills while playing fun, math-related games against friends, classmates, or other students.



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Examples of ICT resources to support Numeracy and Maths

Espresso

The pupil username is student21929 and the password is windy29.



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Home Learning

Home Learning tasks are allocated on a fortnightly basis. The tasks are differentiated and follow on from the learning that your child will have done in class.

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