

# MATHS

*“The only way to learn mathematics is to do mathematics.”*

- Paul Halmos

At Beormund we encourage the children to develop their mathematical skills to the maximum possible, at a pace appropriate to their current level of ability. We aim to ensure that all children experience:

- A positive attitude to mathematics, including, confidence, enjoyment and perseverance.
- An appreciation of the place of mathematics in society.
- An ability to think mathematically and work independently.
- An ability to use mathematics across the curriculum.

As many of the children have experienced disruption in learning, at Beormund we have adopted a ‘back to basics’ approach.

The focus for all year groups is on consolidating the children’s knowledge, understanding and execution of number and the four operations with great emphasis on Times Tables.

- To help with the progression on how to teach addition, subtraction, multiplication and division in the school, we use the:

**Written Calculation Policy for Southwark Primary Schools**

**Mental Calculation Strategies for Y1-Y6**

**Minimising the gaps in Mathematics - Guidance for school leaders, maths subject leaders, teachers and teaching assistants from Y1 to Y6**

## Maths Curriculum Overview

### Year 1:

Autumn	Spring	Summer
<ul style="list-style-type: none"> <li>- Counting</li> <li>- Place Value</li> <li>- Addition and Subtraction</li> </ul>	<ul style="list-style-type: none"> <li>- Multiplication and Division</li> <li>- Fractions</li> </ul>	<ul style="list-style-type: none"> <li>- Measurement</li> <li>- Geometry: Position and Direction Properties of shape</li> </ul>

### Year 2:

Autumn	Spring	Summer
<ul style="list-style-type: none"> <li>- Place Value</li> <li>- Addition and subtraction</li> <li>- Money</li> </ul>	<ul style="list-style-type: none"> <li>- Multiplication and division</li> <li>- Fractions</li> <li>- Time</li> <li>- Shape and space</li> </ul>	<ul style="list-style-type: none"> <li>- Revision of all concepts</li> <li>- Shape and space</li> <li>- Data Handling</li> </ul>

### Year 3:

Autumn	Spring	Summer
<ul style="list-style-type: none"> <li>- Place Value</li> <li>- Addition and Subtraction</li> <li>- Multiplication and Division</li> </ul>	<ul style="list-style-type: none"> <li>- Multiplication and Division</li> <li>- Fractions</li> <li>- Measurement: Money Length and Perimeter</li> </ul>	<ul style="list-style-type: none"> <li>- Fractions</li> <li>- Measurement: Time Mass and Capacity</li> <li>- Geometry: Properties of Shape</li> <li>- Data Handling</li> </ul>

### Year 4:

Autumn	Spring	Summer
<ul style="list-style-type: none"> <li>- Place Value</li> <li>- Addition and Subtraction</li> <li>Multiplication and Division</li> <li>- Measurement: Length and Perimeter</li> </ul>	<ul style="list-style-type: none"> <li>- Multiplication &amp; Division</li> <li>- Fractions</li> <li>- Decimals</li> <li>- Measurement: Area</li> </ul>	<ul style="list-style-type: none"> <li>- Decimals</li> <li>- Measurement: Money Time</li> <li>- Statistics</li> <li>- Geometry: Properties of Shape Position and Direction</li> </ul>

## Year 5:

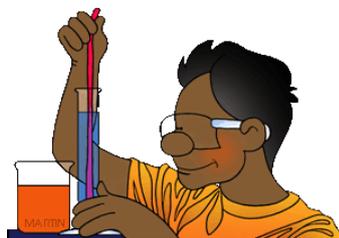
Autumn	Spring	Summer
<ul style="list-style-type: none"><li>- Algebra</li><li>- Measurement</li><li>- Geometry (properties of shape)</li><li>- Geometry (position and direction)</li><li>- Revision of number (place value)</li><li>- Revision of number (calculations)</li><li>- Revision of FDP</li></ul>	<p>Number:</p> <ul style="list-style-type: none"><li>- Multiplication</li><li>- Division</li><li>- Fractions</li><li>- Decimals</li><li>- Percentages</li></ul>	<ul style="list-style-type: none"><li>- Decimals</li><li>- Properties of shapes</li><li>- Position and Direction</li><li>- Converting Units</li><li>- Volume</li></ul>

## Year 6:

Autumn	Spring	Summer
<ul style="list-style-type: none"><li>- Place Vale</li><li>- Operations</li><li>- Fractions</li><li>- Decimals</li><li>- Percentages</li></ul>	<ul style="list-style-type: none"><li>- Algebra</li><li>- Measurement</li><li>- Geometry (properties of shape)</li><li>- Geometry (position and direction)</li><li>- Revision of number (place value)</li><li>- Revision of number (calculations)</li><li>- Revision of Fractions, decimals and percentages</li></ul>	<ul style="list-style-type: none"><li>- Geometry: Properties of Shape</li><li>- Properties of triangles and circles.</li><li>- Area of triangles and circles.</li><li>- Consolidation, Investigations and preparations for KS3.</li></ul>

As well as being taught as a stand-alone subject, the maths curriculum is also embedded into other areas of the curriculum:

## Science



In the National Curriculum for Science, children are required to:

- take **measurements**
- compare, classify and **sort**
- collect, record and present **data**

## Music



- Singing songs that have a mathematical focus
- Using musical instruments to support **counting** activities

## Art



- repeating **patterns**
- exploring **symmetry** in shapes and logos
- creating symmetrical patterns
- using **shapes** in a collage

## PE



- **Counting** activities linked to throwing and catching
- **Timing** running activities using a stop watch
- **Tabulating** scores in team games
- Looking at movement **patterns** through dance
- Using the language of **position and direction**, such as turns, forwards, backwards

## Geography



- Collecting and interpreting a range of **data**
- Using **directional language** to describe locations and features on maps
- Linking **co-ordinates** to map work
- Exploring **large numbers** when looking at populations and distances
- Considering **time** zones

### LINKS TO SITES USED:

- Mathsframe - has interactive games and resources for teachers/ children to use.
- <https://www.bbc.co.uk/teach/super movers/ks2-maths-the-times-tables-mash-up-with-bartley-bluebird-wolfie-wolf/zk4hd6f>
- Transum.org/software
- <https://www.rmeasimaths.com>
- [www.hamilton-trust.org.uk](http://www.hamilton-trust.org.uk)

To find out more about our curriculum, please email your questions to:

[office@beormund.southwark.sch.uk](mailto:office@beormund.southwark.sch.uk)

### How you can support your child in Maths:

- Have regular talks with your child about the work they are doing in Mathematics
- When engaging in practical activities at home, involve your child, e.g. cooking (weight, time, etc.), putting up shelves (measurement, problem solving)
- Reinforce time by asking the time and asking how long until
- Always be positive about Mathematics and about your child's achievement

Please keep in touch with the school should you feel your child is struggling or needs more challenge – let us know.