



Northwick Park Academy Trust
Maths in the Early Years



We use the Early Years Foundation Stage Framework to support our planning of mathematics in the early years. We assess against the EYFS Development Matters statements throughout Daycare, Pre-School, Nursery and Reception. Our aim is that children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. We are committed to ensuring the confident development of number sense and put a strong emphasis on the mastery of early key concepts.

Nursery

The EYFS development matters statements for mathematics are taught through a topic-based approach. Taught sessions introduce skills and then pupils get the opportunity to explore them through play-based activities. Nursery plan focused activities to teach and assess the key concepts from the curriculum.

Pre-Nursery skills/objectives

Combine objects (like stacking cups and blocks)
Build with a range of resources
Complete inset puzzles
Take part in finger rhymes with numbers
Recognise changes in up to 3 objects
Compare amounts using vocabulary of more, lots and the same
Count in everyday contexts (some numbers may be skipped)
Compare sizes, weights using vocabulary of bigger/smaller, high/low/tall, heavy
Notice patterns and arrange items in patterns

Nursery Objectives

Subitise up to 3 objects
Recite numbers past 5
One to one correspondence when counting up to 5 objects
Cardinal principle – last number reached is the total
Show 'finger numbers' up to 5
Link numerals up to 5 with the correct amount of objects
Experiment with mark making for numerals
Solve real word problems with numbers up to 5
Compare quantities
Explore and talk about 2D and 3D shapes
Select and combine shapes for a purpose
Understand positional language
Compare size, length, weight and capacity
Identify patterns around them
Extend and create ABAB patterns
Notice and correct errors on simple patterns
Begin to use time words to sequence events

Mathematics is also integrated into the daily routines in EYFS. In Nursery this includes:

- Days of the week
- General counting e.g. number of pupils in nursery, how many there are?
- Counting songs and rhymes
- Use of ordinal numbers e.g. Sam wash your hands first
- Incorporating maths into areas of continuous provision
- Noticing maths in the environment e.g. finding shapes and patterns
- Constant use of positional language

Reception

In Reception, we are committed to ensuring the confident development of number sense and put a strong emphasis on the mastery of early key concepts including the formation of the digits 0-9. There is a daily mathematics input and then a carousel of activities including a teacher-led focused activity and an activity reinforcing previous learning.

Autumn	Spring	Summer
Rote counting Counting objects Subitise Number recognition Number writing Ordering numbers Patterns One more and one less Addition and subtraction	Comparing numbers Exploring the composition of numbers One more and one less Addition and subtraction Positional language	Recalling numbers bonds Odd and even Doubles and halving 2D and 3D shapes Manipulation of shapes Compose and decompose shapes Length, weight and capacity

Mathematics is also integrated into the daily routines in EYFS. In Reception this includes:

- Days of the week and months of the year
- Sequencing of events and use of language of time
- General counting e.g. how many pupils in school today, how many bananas left from snack
- Counting songs and rhymes
- Use of ordinal numbers e.g. Sam line up first, Lilly line up second
- Incorporating maths into areas of continuous provision both inside and out
- Number formation
- Noticing maths in the environment e.g. finding shapes and patterns
- Constant use of positional language
- Games such as track counting games

We also try to give pupils opportunity to explore through play, areas of mathematics that are not explicitly taught in Reception including money and statistics.