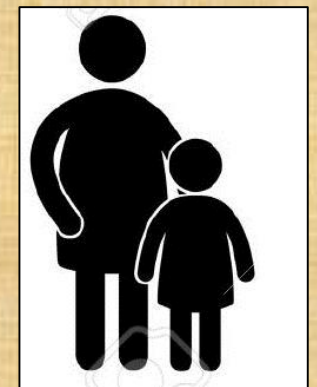


Family Learning



Mathematics- Shape,
Space and Measurement



Mathematics

Mathematics involves providing children with opportunities to develop and improve their skills in:

- Counting, understanding and using numbers
- Calculating simple addition and subtraction problems
- Describing shapes, spaces, and measurement



Shape, Space and Measurement

- Children use everyday language to talk about:
size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.
- Children recognise, create and describe patterns.
- Children explore characteristics of everyday objects and shapes and use mathematical language to describe them.

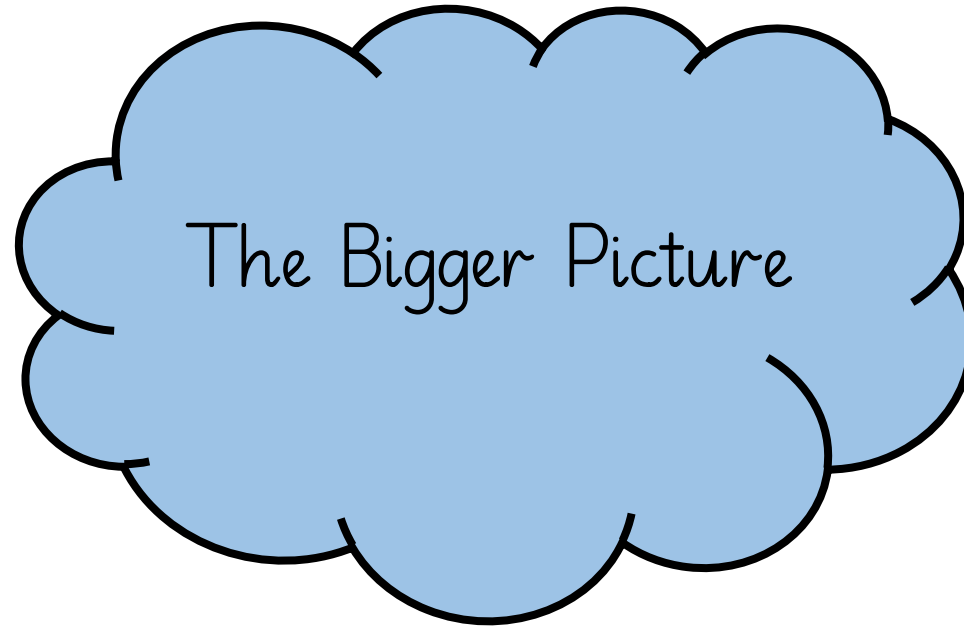


Concrete, pictorial and abstract representations

Brings maths concepts to life and makes them more fun

Teaching various methods and strategies to solve a problem

Children are challenged through depth and consolidation throughout year



It sets children on a path towards numeracy skills and confidence in later life

Innovative approaches and resources, integrating with Core Knowledge where possible

Developing language and vocabulary, exposure to non-standard and standard units of measurement

Gives children opportunity to make meaningful connections through play (making the abstract concrete)

What does it look like in the classroom ?

- Model and encourage use of mathematical language
- Stories, singing, rhymes and finger plays
- Model the language for shape, position and measurement in discussions i.e. 'in', 'on', 'inside', 'under', 'long, longer', 'longest', 'short', 'shorter', 'shortest', 'heavy', 'light', 'full' and 'empty'.
- Encourage children to talk about the shapes they see and use and how they are arranged and used in constructions.
- Value children's constructions, for example helping to display them or taking photographs of them, inclusion in Learning Journals.
- Maths Meeting explores positional language, shape, length, height, mass.
- Cooking or making playdough.
- Role play areas



Shape, Space and Measurement Activities

Measurement

- ***Mass:** comparing and weighing items using non-standard/standard measurement
- ***Length:** draw around foot/ hand, measure length and compare size/length

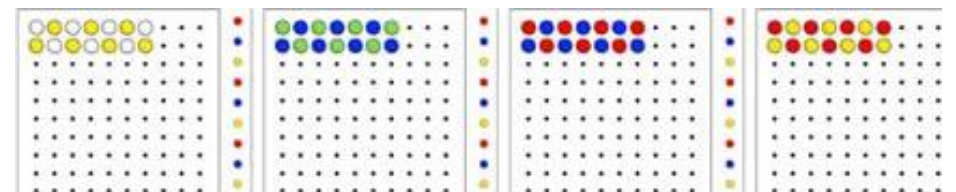
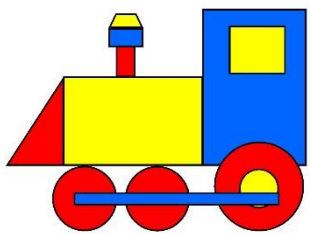


Space

- ***Positional Language:** Place item in different positions and describe
- ***Patterns:** Create a pattern using the peg boards

Shape

- ***Construction:** make a shape out of lolly sticks, playdough or wool
- ***Drawing:** create a shape picture by tracing around various shapes



*Using non-standard/standard measurement

Mass



Can you **estimate** and **compare** the weight of 2 items using your hands or the scales?
(Which is heavier and which is lighter?)

*Using non-standard measurement

Floreat Wandsworth

Length

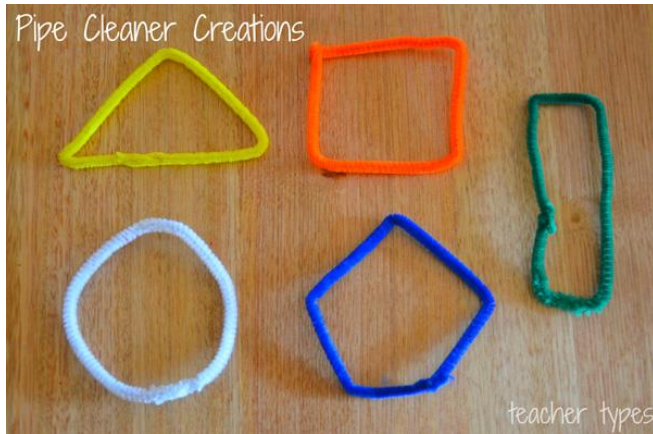


Can you trace around your foot or hand and measure the length of it using the items ?

Can you compare the size and length ?

(Which is bigger, which is smaller ? Which is longer, which is shorter ?)

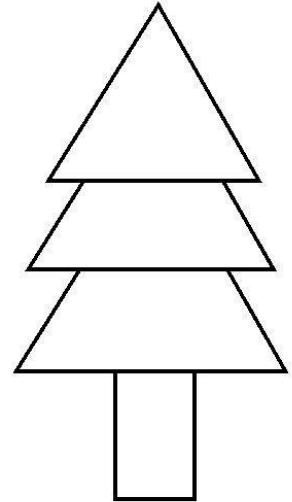
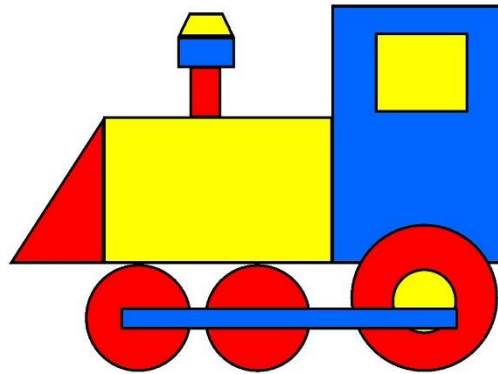
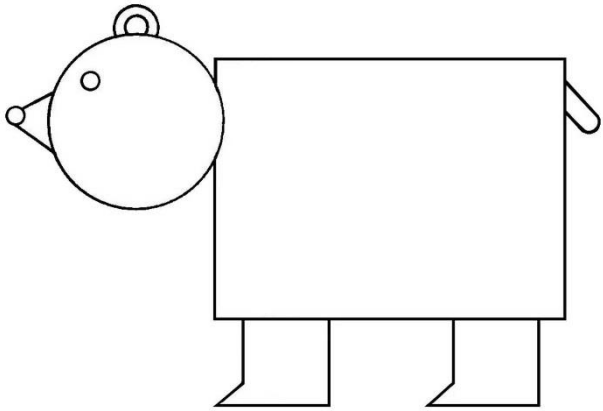
Shape Construction



Can you make a shape out of lolly sticks, wool or playdough?

(What shape have you made? How many vertices and corners does it have?)

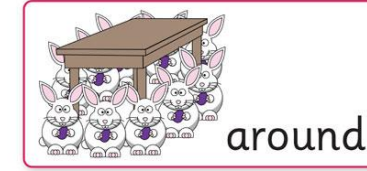
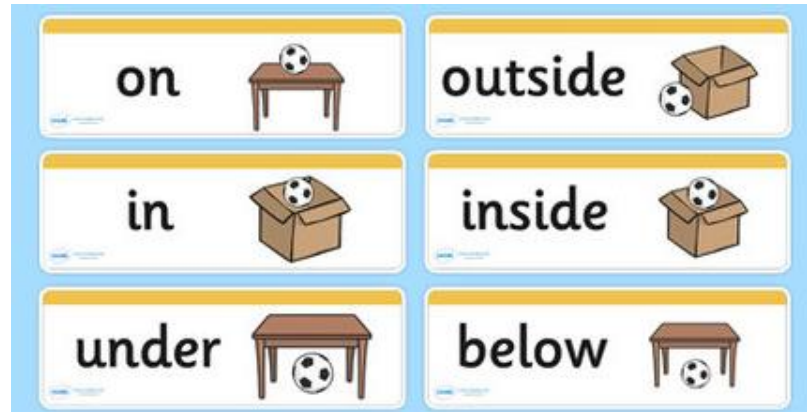
Floreat 
Wandsworth
Shape Pictures



Can you create a shape picture by tracing
around the different shapes?

(What shapes have you included in your picture?)

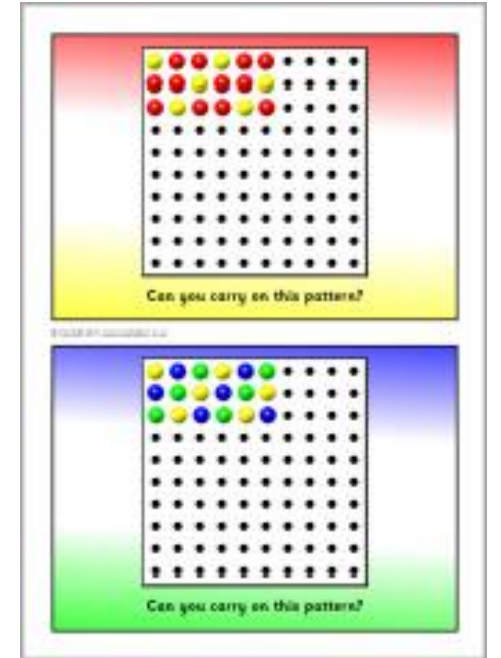
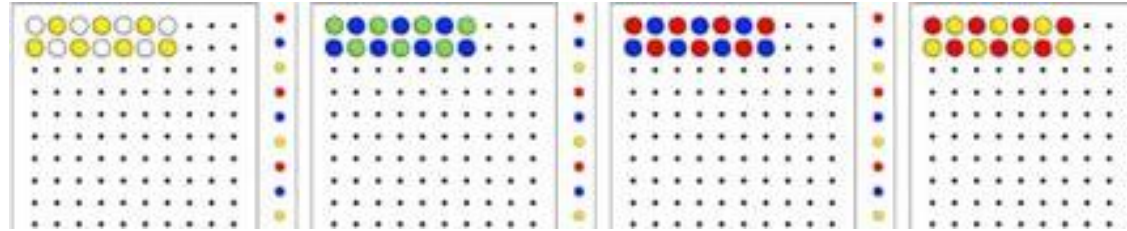
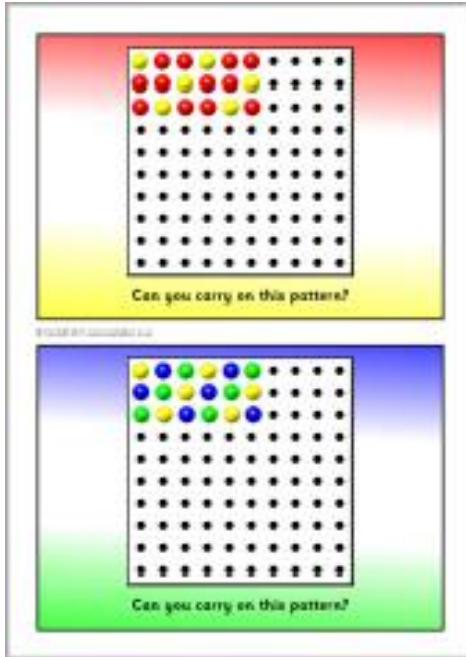
Positional Language Game



Can you place an item in different positions and get your partner to describe where it is?
(Is it above, on top, under, below, next to, beside?)



Patterns



Can you create a pattern using the peg boards?

(What colours have you used?)