



# Mathematics Learning Pathways

## Pre Formal Self-Awareness

### Multi Sensory -

Developing awareness of themselves and the World around them



### Developing skills in -

Attention

Listening

Engagement

Interaction



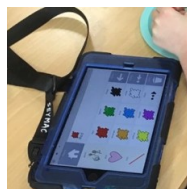
### Early communication -

Objects of reference

Photos/ symbols

Pecs

Voice output communications aids



### Exploring -

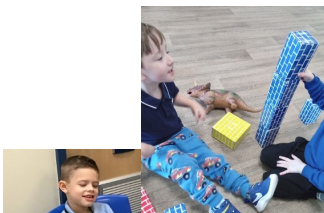
Cause and effect

Trial and error

Investigation

Spatial awareness

Experiencing number songs, rhymes and stories



## Semi Formal Readiness for Learning

### Building on self awareness skills-

Making choices

Developing independence skills



### Acquiring early maths skills -

Developing an awareness of numerals

Joining in with number activities, songs and stories

Exploring Numicon and concrete objects

Developing an awareness of measure using non-standard units

Exploring shape, colour and patterns



### Building core vocab and early maths vocabulary

Symbols

Signing

Communication aids

Adult modelling

Numbers 1-10

Positional language

Days of the week

Colour names



## Formal Developing Core Skills

### Building core skills in -

Number, pattern and calculation

Shape, space and measure



### Developing number sense

Recognition of numerals and what they represent

Place value- understanding numbers

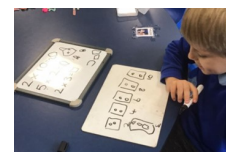
Using the concrete, pictorial and abstract approach

Knowing and using number facts

Understanding maths concepts and procedures

Developing fluency and reasoning skills

Exploring problem solving activities



### Exploring shape, space and measure

Geometry-recognising and naming 2D/3D shapes and their properties

Measuring using standard units

Understanding the value of money

Data handling



Using mathematical language- discussions, questioning and reasoning mathematically