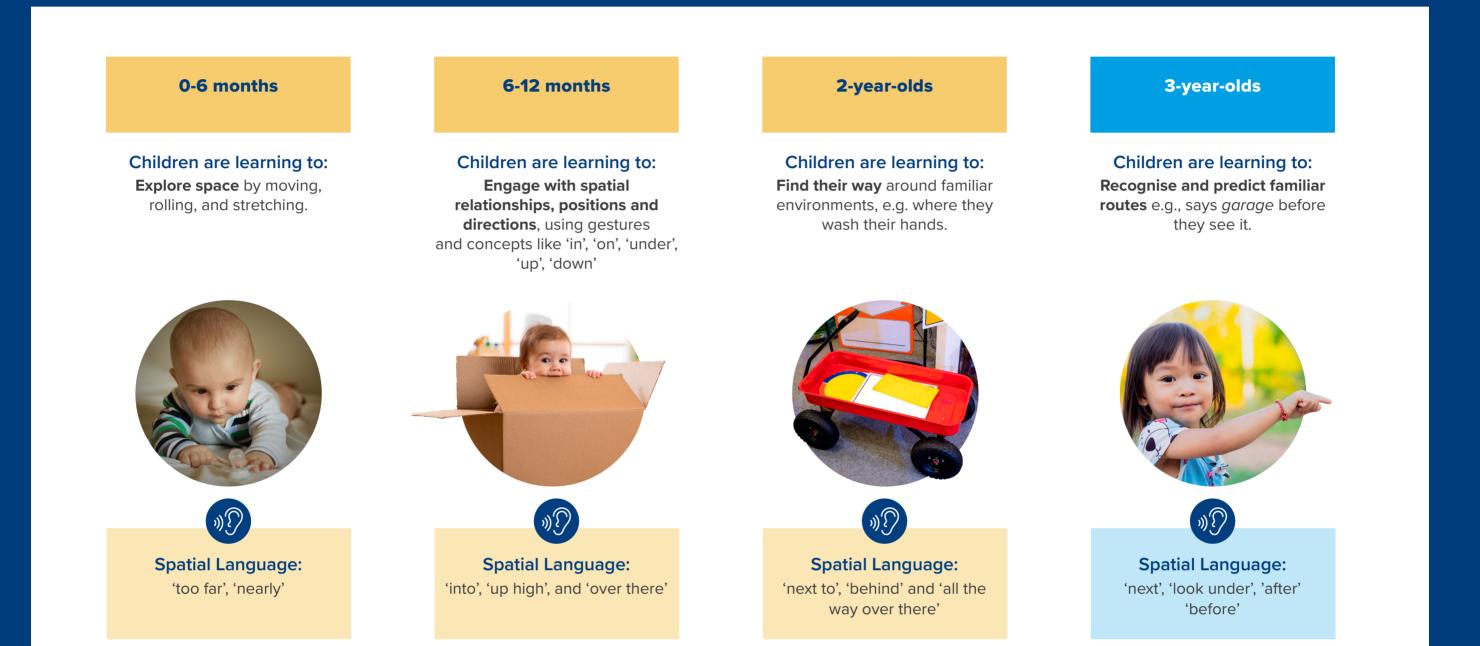


# Movement and Navigation Spatial Reasoning Toolkit

Movement and navigation are key aspects of spatial reasoning. This poster outlines key developmental steps for children from birth to 7 years. You can encourage children's spatial development by providing ample time for exploration and by using spatial words during play and everyday routines. Spatial reasoning is central to everyday living and research has shown that it is also a strong predictor of future mathematical and scientific attainment



## 4- and 5-year-olds

Children are learning to: Follow and give directions. including *left* and *right* turns when accompanied by gestures.

## 4- and 5-year-olds

Children are learning to: Notice landmarks and use these to find their way around familiar places.

#### 6- and 7-year-olds

Children are learning to: Predict the path of travelling objects, using the language of position, direction, and orientation.

#### 6- and 7-year-olds

### Children are learning to:

Place things at approximately correct relative distances when creating maps or 3D models and identify representations of real-world features.





**Spatial Language:** 'forwards', 'backwards', 'sideways' and 'turn'





**Spatial Language:** 'first', 'then', 'next', 'alongside' and 'after'





**Spatial Language:** 'over there', 'further/nearer', 'close to', 'along', 'around', 'between', 'left/right'





**Spatial Language:** 'nearby', 'further away' and 'distance'









**Research Council** 

Economic

and Social







For more ideas and information please scan the QR code above to visit the Spatial **Reasoning Toolkit**