3-4 years
Spatial Reasoning Toolkit

At this age children are developing understanding of aspects of shape and space including composition (how shapes fit together), movements like turning and flipping, symmetry and scale. Children are beginning to recognise and predict familiar routes (e.g. to the park).

Puzzles
Moving, turning and predicting how pieces will fit

Books
Using spatial language

Obstacle courses
Experiencing and talking about directions

Small world play
Understanding position and direction

Out and about
Remembering and predicting routes, landmarks and directions, discussing perspectives and distance

Pattern making and spotting
Arranging objects to make spatial patterns (position), noticing spatial patterns including symmetry in everyday objects

Block play
Using size and shape relationships as well as parts and whole to select blocks for specific purposes/structures

next to, turn, corner, pointy, curved, straight
under, up, down, over, upside down
through, over, around, under
in front of, sideways, bigger, smaller
straight, bend, corner, across, in front of, after, long way, smaller
same on both sides, reflection, pattern
together, next to, slanting, pointy, curved, corner

https://doi.org/10.31234/osf.io/jnwpu
https://earlymaths.org/spatial-reasoning/
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