

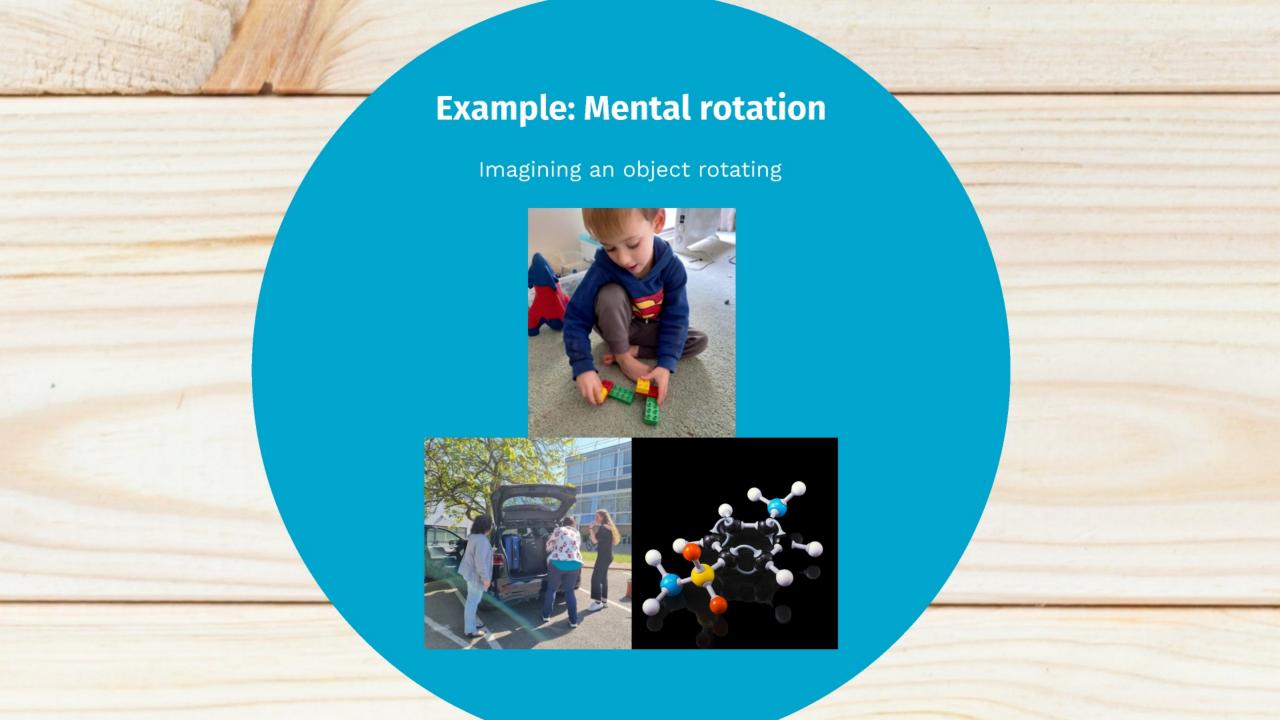


## Spatial reasoning is...

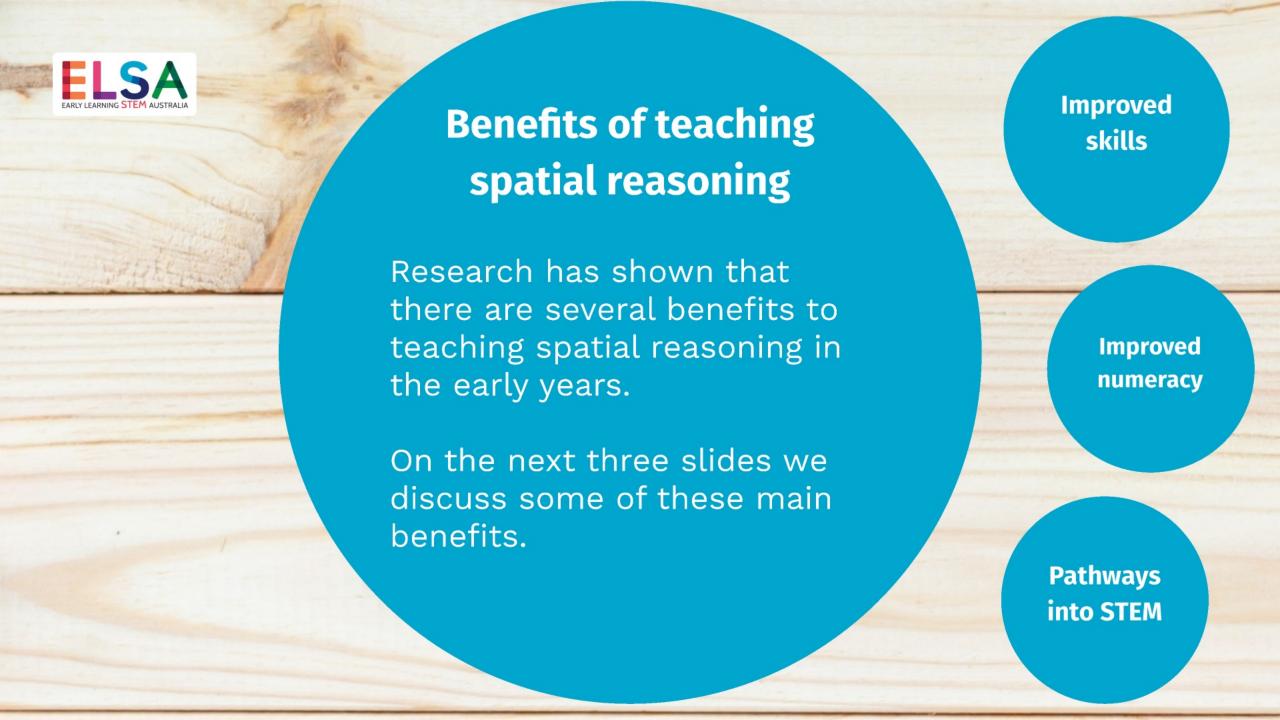
Mental rotation

- A broad term for a range of skills
- The mental manipulation of 2D and 3D relations between and within objects
- Used all the time in everyday life
- Used in many STEM tasks

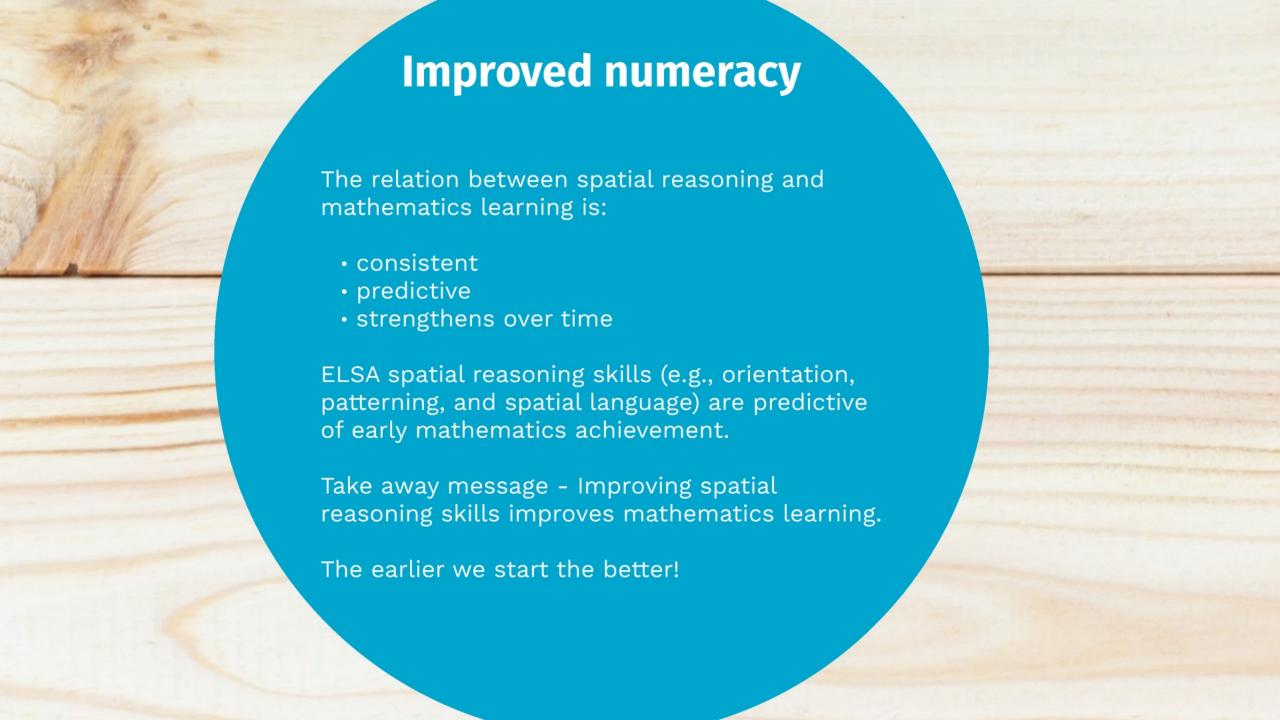
Perspectivetaking

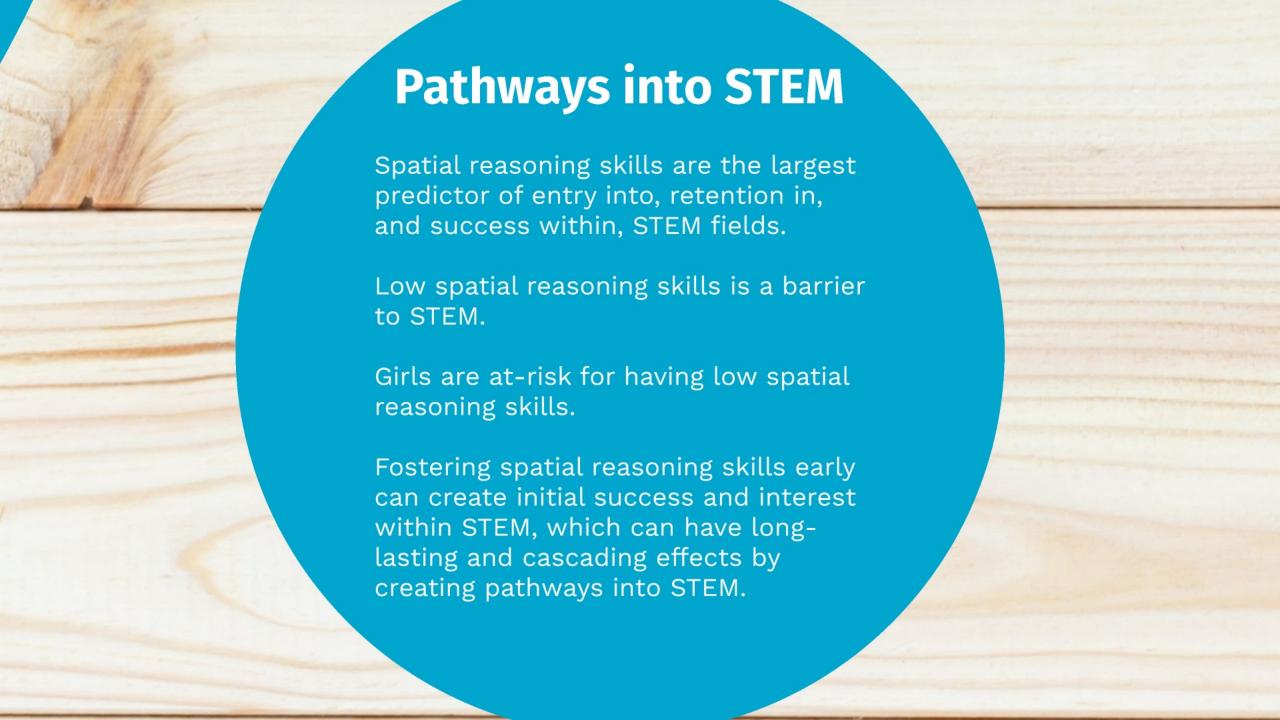














## Spatial reasoning tools

Spatial reasoning tools are ways to engage children in spatial reasoning. You likely use these in many STEM activities you are already doing.

We want to focus on:

- spatial language
- spatial gestures
- spatial representations

In the next three slides, we explain what each term means and provide examples from the ELSA program. Spatial language

Spatial gestures

Spatial represtnations



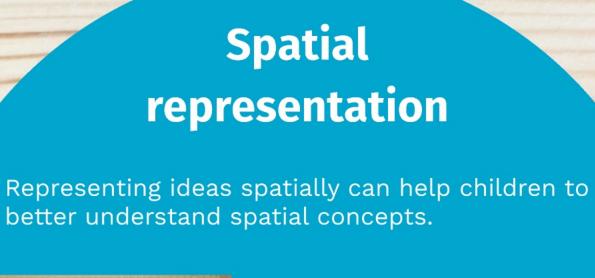
Words that describe the relation between and within objects. For example:

- Location and direction: in, on, behind...
- Orientations and transformations: turn, flip...
- Shapes: square, triangle, circle...
- Spatial dimensions: big, little, wide, narrow...
- Spatial features and properties: side, corner...

















## What would you like to know more about?

- From this presentation?
- In future presentations?
- About the ELSA team and what we do?



## Thank you

Today we have spoken about the importance of spatial reasoning in young children's learning.

We hope we've shown you new ways to incorporate spatial reasoning into the STEM activities you already do in your centres.

We hope to see you online again for future presentations - and please look at our earlier presentations.

As parents, and also as a proud "Story Park Grandad", - thanks for all you do for our precious young children.

Our Contact Details

