



What did we do?

Block Construction Skills For Mathematics  
**BLOCS**

# Research Summary

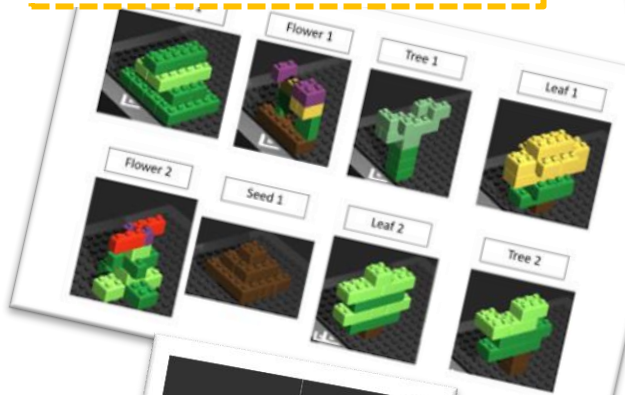
We wanted to know if LEGO® construction training can improve Lego construction ability, spatial skills and mathematics

We worked with 198 children, who took part in one of three of our group training programmes as a lunchtime club at school

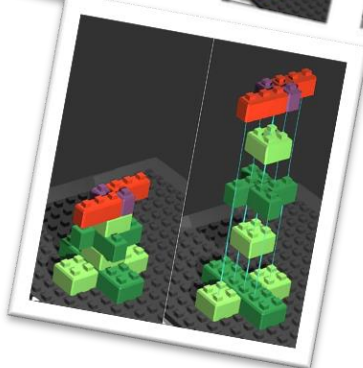


We had two Lego clubs (physical and digital format) and a crafts club

Children in the Lego clubs built Lego models, using either physical Lego bricks, or in our digital Lego platform



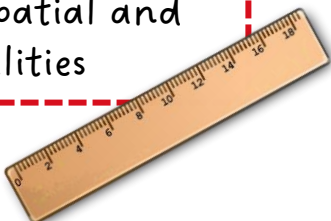
Children in the crafts club completed activities such as decorating plant pots



Scientists! Decorate a plant pot and make your own plant!



Before and after the clubs, children completed tasks to measure their Lego construction, spatial and maths abilities



## We found...

Lego training improved Lego construction ability



This suggests that implicit Lego training is not enough for transfer to spatial and maths skills

Spatial ability did not improve as a result of the training

Future work should investigate whether explicit use of spatial language and strategies makes a difference

Some improvements in arithmetic as a result of digital Lego training, relative to the other two groups

