kulak **KU LEUVEN** 

## Psychologie en Pedagogische Wetenschappe

## **Building blocks of mathematics performance**

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## BACKGROUND





Training/learning only on incongruent trials: why?

**Incongruent trials reflect Cognitive Control** 

Effectiveness of training with comparison and number line is similar in 5-6 year olds who played 1h spread over 3 weeks

**TRAIN COGNITIVE CONTROL** 

	Ascending	Descending	Non-order	
Ascending trials				
Descending trials	.90			
Non-order trials	.88	.85	$\frown$	
TTR	43	45	(52 )	
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Performance on non-order trials correlate strongest with math: why?

**Cognitive control** is needed to overcome interference of ordered sequence