

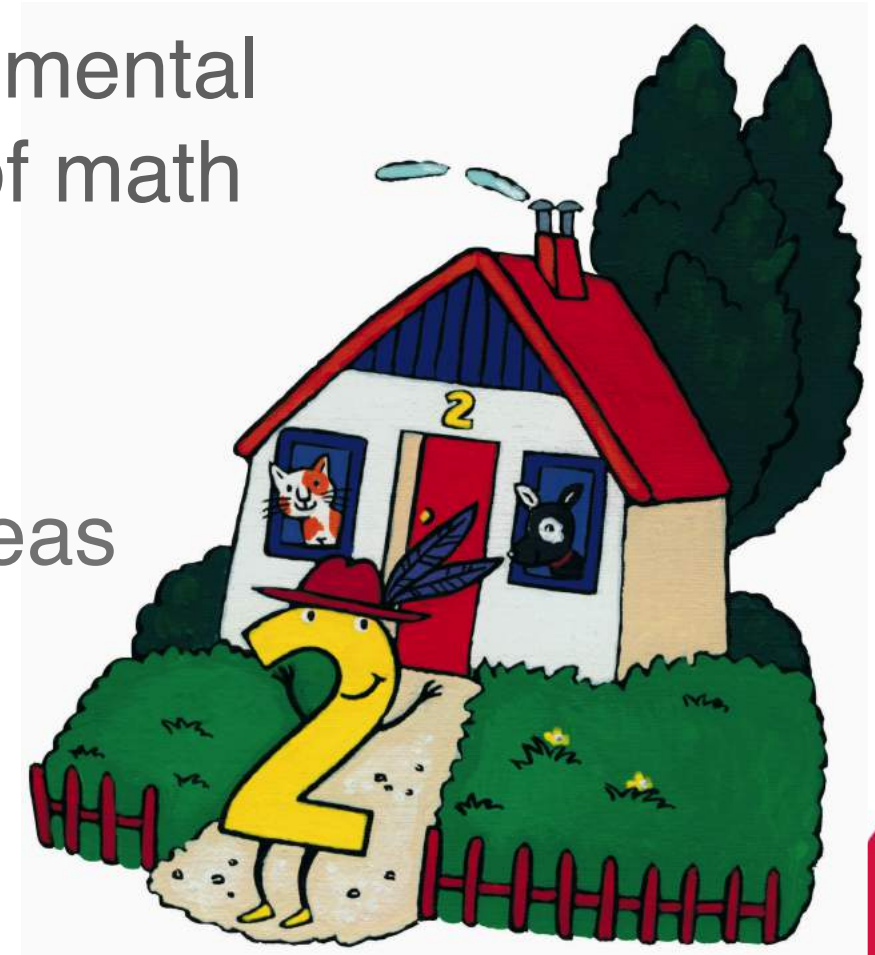


Playfully discover the world of
numbers, sets and shapes

Barbara Schindelhauer

Let's visit Numberland

- **Embracing** : The entire child with the entire matter
- **Combining** : Brain research / developmental psychology / pedagogics / didactics of math
- **Structuring, yet open frame**
 - Organizing experiences
 - Room for own, established, new ideas
- **Adjustable** to individual needs
- **Connecting** activities / experiences
- **Starting point** for further activities / explorations



Building a solid bridge

Inborn
mathematical
understanding



Formal
language of
(basic) math

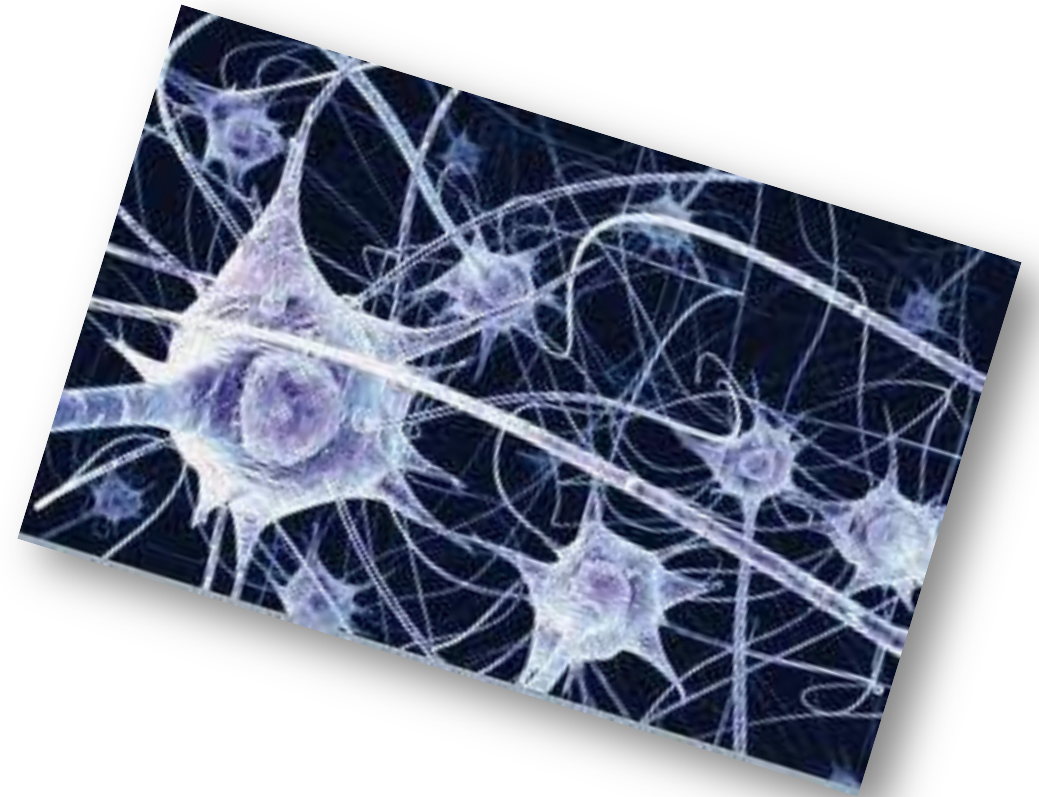
Concrete
experiences



Abstract
thinking

Brain research

- Building on the existent
- Relevance / Coherences / Context
- Emotions
- Incidents and Places
- Multifaceted experiences / Activity / Music



Developmental psychology

- Emotional view
- 'Good' vs. 'bad', black-and-white
- Magical thinking

Imagine a place ...



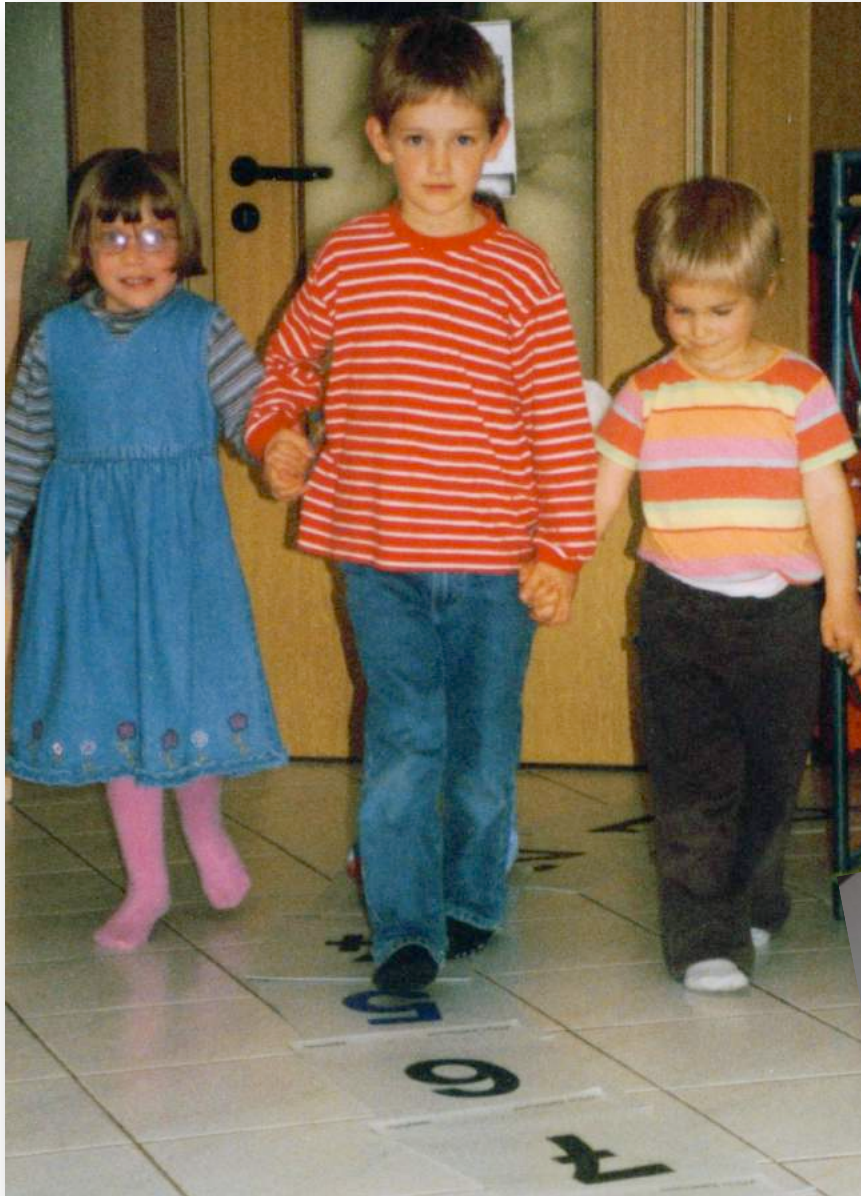
Number Town tourists



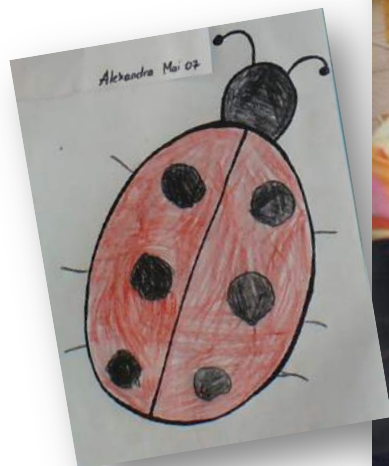
August 3-6, 2011

Europe Regional Conference

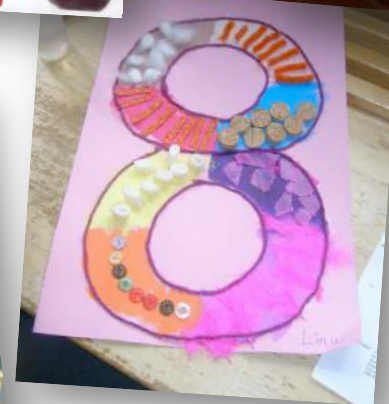
Number Lane : 0 to 10 (20)



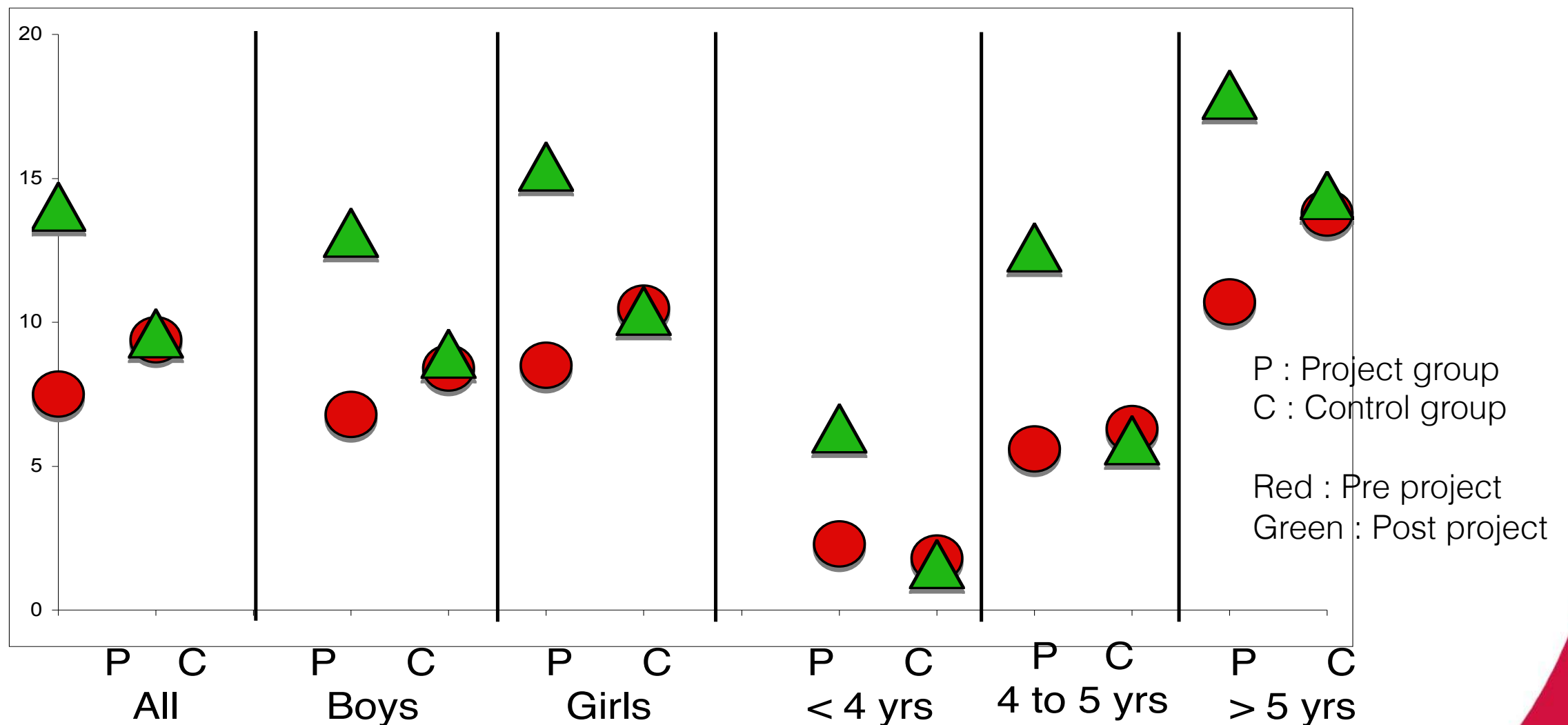
Gardens full of math...



Opening doors

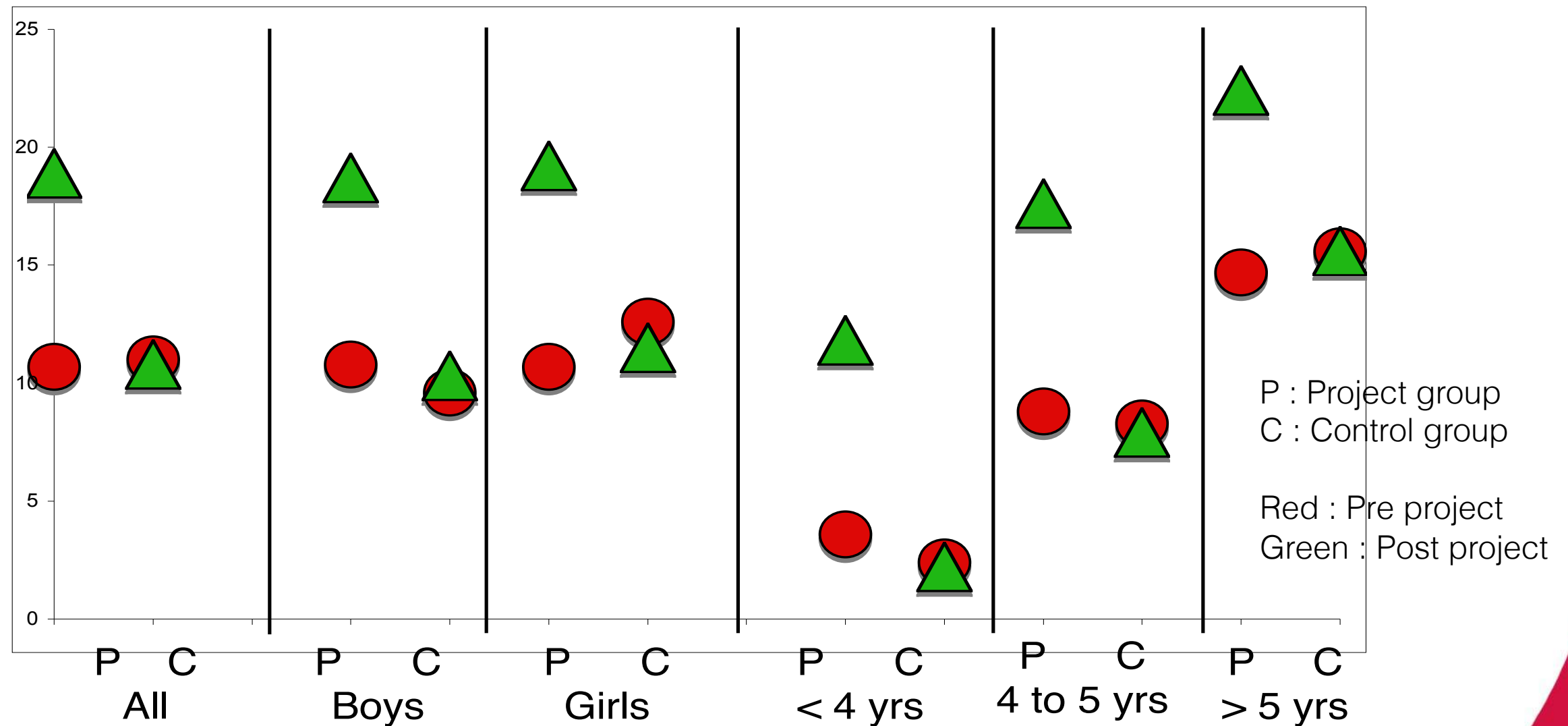


Study : Math relevant thinking



Within only ten weeks, children aged 3 to 6 gained the mathematical competence and understanding they normally would have achieved only within one year.

Study : Language skills



The increase in language competence is substantial!

Source: G. Friedrich/ H. Munz: *Förderung schulischer Vorläuferfähigkeiten durch das didaktische Konzept "Komm mit ins Zahlenland"*. In: *Psychologie in Erziehung und Unterricht*, 2006, Vol. 53, S. 134-146.

Thank you



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