Panel on Teacher Education

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ICMI Study 23

Primary Mathematics Study of Whole Numbers

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Common themes

- Increased emphasis on problem solving
- Role of and working with representations
- On the mathematics education agenda for many years
- Mixed success
- Singapore?
- Scaling up?

Is the question

What could *teachers* do differently?

 What could we (teacher educators) do differently?

What is our theory of change?

Choosing to improve is a rational decision

 Evidence that fear of loss may be a more powerful motivator than possible gain

What is our theory of action?

Knowledge/beliefs -> changed practice

 Context/conditions → action → knowledge/beliefs adapted

WHITEHEAD ON LEARNING

Precision
Generality
Romance



Where is the 1/x button?

Opportunity to work on x⁻¹

Muttering

"But why would anyone ever want to do that?"





"If you want to build a ship, don't drum up the men to gather wood, divide the work and give orders. Instead, teach them to yearn for the vast and endless sea."

Antoine de Saint-Exupery