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Insights into children's understandings of mass measurement.

Tso, Tai-Yih (ed.), Proceedings of the 36th conference of the International Group for the Psychology of Mathematics Education "Opportunities to learn in mathematics education", PME 36, Taipei, Taiwan, July 18–22, 2012, Vol. 3. Taipei: National Taiwan Normal University. 201-208 (2012).

Summary: While measurement may look simple, insights gained from research into young children's concepts of mass measurement lead us to believe that the learning of measurement can be complex for children. A teaching experiment, lasting one week, delivered five lessons that offered rich learning experiences regarding concepts of mass to 119 children of 6–8 years of age. Observational data collected during these lessons and clinical interview data collected before the lessons gave insights into the diversity of children's perspectives. The focus of this paper is children's understandings of the attribute of mass and comparison and ordering of masses.

Classification: F72 M52 C32

Keywords: mass measurement; children's understanding