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Promoting statistical literacy through data modelling in the early school years.

Chernoff, Egan J. (ed.) et al., Probabilistic thinking. Presenting plural perspectives. Dordrecht: Springer (ISBN 978-94-007-7154-3/hbk; 978-94-007-7155-0/ebook). Advances in Mathematics Education, 441-457 (2014).

Summary: This chapter addresses data modelling as a means of promoting statistical literacy in the early grades. Consideration is first given to the importance of increasing young children's exposure to statistical reasoning experiences and how data modelling can be a rich means of doing so. Selected components of data modelling are then reviewed, followed by a report on some findings from the third-year of a three-year longitudinal study across grades one through three.

Classification: K42

Keywords: data modelling; statistical reasoning; statistical literacy; data representation; metarepresentational competence; conceptual competence; analogical reasoning; problem solving; problem posing; young children

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