

THE ASSESSMENT OF QUANTITATIVE REASONING IN PRIMARY SCHOOL**Terezinha Nunes***Department of Education, University of Oxford*

In this presentation, I will explore the theory that the basic units of quantitative mathematical reasoning are quantities, relations, numbers and operations. It is crucial for mathematical development that students' understanding of these units be coordinated so that they can solve mathematical problems. The theory will be applied to the assessment of mathematical problem solving in primary school through the presentation of items that focus on different aspects of quantitative reasoning and analyses of students' performance. Data from a large scale study of students aged 10–11 years in the UK will be presented to indicate how students deal differently with quantities and relations in problem solving.