

## Primary Numeracy Conference April 2016

*presented by the PDST Primary Numeracy Team*

Workshop Title	Details
Cultivating Inquiring Minds with Practical Investigations	Want to cultivate inquiring minds amongst your pupils? Looking for practical maths investigations? Curious about Inquiry Based Learning (IBL)? This workshop will explore questions, problems and scenarios leading to rich mathematical investigations. It will provide you with a suite of ideas for Inquiry Based Learning in mathematics, ranging from infants to senior classes. You will gain practical experience on how to develop measurement concepts such as weight and capacity through IBL.
Problem Solving with Shape and Space, infants to 2 <sup>nd</sup> Class	Teachers, this fun and practical workshop will help you to develop a problem solving approach to the teaching of Shape and Space in your classroom, from infants to 2 <sup>nd</sup> class. We will explore how to develop concepts through hands-on concrete experiences and the use of higher order questioning to develop pupils' reasoning and communication skills.
Team Teaching for Numeracy in a Senior, Multi-grade Classroom	This workshop will explore the principles of a team teaching approach to numeracy. Using the lens of fractions, we will explore the implementation of practical hands-on activities to support a multi-grade senior class in a team teaching context, using video footage in an Irish school, to highlight many key aspects which support this approach.
Developing a Classroom Culture that Supports a Problem Solving Approach to Numeracy	Tired of pupils complaining about Maths? Sad faces... anxious expressions! What can you do as a teacher to change this? This innovative workshop will explore practical activities and strategies which contribute to a positive classroom culture and a 'can-do' attitude to Problem Solving.
Problem Solving in the Infant Classroom	Tricky toys, pesky buttons, slippy crayons... when you're an infant everything is problem solving! Through practical activities, self-reflection and professional discussion this highly interactive workshop explores the strategies and skills infants need to navigate the world.
A Problem Solving Approach to the Teaching of Length from 3 <sup>rd</sup> to 6 <sup>th</sup> Class	The long and the short of it is that our pupils need to engage in practical and meaningful activities to develop their understanding of the concept of measurement. This workshop will explore an overview of engaging activities, enabling application of concepts and real-life problem solving. Suitable for teachers of 3 <sup>rd</sup> to 6 <sup>th</sup> Class.
Mental Maths – Developing Problem Solving Strategies for Addition and Subtraction	Teachers, you will discover how to elicit and support a variety of mental maths strategies from your pupils, thereby equipping your students with the skills they need to develop fluency with numbers and supporting them towards solving more complex problems. A problem solving approach and developing reasoning and communicating skills with your pupils are at the heart of this approach.
Project Based Learning – Real Life Problem Solving in Maths	Project Based Learning provides students with an authentic and purposeful experience in maths and supports their development of 21 <sup>st</sup> Century skills. Project Based Learning's time is here! This workshop aims to introduce and define Project Based Learning for teachers of primary numeracy, providing them with the guiding principles, assessment tools and some project ideas.
Problem Solving Strategies for Multiplication and division in 3 <sup>rd</sup> and 4 <sup>th</sup> Class	In this workshop teachers will explore how a variety of visual models (arrays, number lines and hundreds charts) can be used to support and extend children's strategies for multiplication and division. Samples of children's reasoning strategies together with student learning logs as a form of assessment will also be explored.
Problem Solving for all – Using Low Threshold High Ceiling Tasks to Engage all Learners (Presented by NRICH)	This workshop will look at how we can use Low Threshold High Ceiling problems to engage all learners in the same task. It will explore short problems and more extensive ones. By the end of this workshop, you will be equipped with lots of problems to use in the classroom from the NRICH website.