

Small schools with mixed-age classes: Teaching for mastery in mathematics

This NNW Maths Hub ‘research and innovation’ project group will work remotely using online video meetings and in-school activity. The focus will be on managing mixed-age classes when working towards teaching for mastery in mathematics. The objectives include:

- Developing a shared language and understanding of strategies for managing the teaching of mathematics in small schools
- Using lesson study to develop and evaluate inquiry-based teaching strategies for teaching mathematics to classes with diverse learners by age and prior attainment

Within these broad aims the precise focus of the project and the detail of the lesson study activity will be collaboratively developed and agreed by participants. We anticipate that at least one teacher from each participating school will attend and contribute to each online workshop but more teachers may attend if preferred.

There will be 6 online project workshops using Zoom with dates and times as follows:

Date and time	Workshop focus	In-school activity
January Weds 27 th 4pm to 6pm	Maths video lesson analysis – focus on mastery and dialogic teaching Developing a shared language for policy and practice on mixed-age classes	Drafting or refining school policy and practice on mixed-age classes and teaching for mastery in mathematics
February Weds 10 th 4pm to 6pm	Lesson study as a school approach to professional development in teaching maths Sharing policy and practice on mixed-age classes and teaching maths	Collaborative planning for lesson study in school
February Weds 24 th 4pm to 6pm	Maths video lesson analysis – focus on mastery and inquiry-based teaching	First cycle of lesson study
March Weds 24 th 4pm to 6pm	Reporting back on first cycle of lesson study	Second cycle of lesson study
April Weds 21 st 4pm to 6pm	Reporting back on second cycle of lesson study	Drafting or refining school policy and practice on mixed-age classes and teaching for mastery in mathematics
July Weds 7 th 4pm to 6pm	Reporting back on policy and practice development by participating teachers and schools. Project evaluation.	Summer holidays 😊

To register for the project please share your name, school and role [here](#).

The NNW Maths Hub facilitators for this project are Helen Madeley and Pete Boyd. If you have any queries please contact us directly: h.madeley@northnorthwestmathshub.org.uk and / or pete.boyd@cumbria.ac.uk