

Maths Hubs Research and Innovation Work Group 2020-21

## SEND and Mathematics

**A work group for teachers of mathematics in special schools, alternative provisions, pupil referral units and mainstream schools with specific SEND units or high numbers of SEND students**  
**Phases: Early Years, KS1 – KS5**



*Our Work Groups this year will address student and schools recovery due to coronavirus-related disruption in addition to main Work Group objectives. It is recognised that Work Groups may need to be adapted and offer some flexibility in order for schools and participants to complete the work required. To support the current position in schools, **sessions will initially be held online via Zoom.***

This Work Group will bring special and mainstream schools together with a particular focus on improving the mathematical attainment and progress of SEND students. This academic year in particular, it is important that we have Work Groups focusing on SEND.

### What is the cost?

The Work Group is **fully funded** by the Maths Hubs Programme and so is **free** to participating schools.

### What does it involve?

Three workshops with school-based tasks for participants to complete and reflect upon between each meeting. The workshops will initially be conducted via Zoom – split into two sessions, morning and afternoon. **Each workshop will be a whole day, therefore those participating will need to request cover.** Participants will use online tools which support virtual representation of concrete manipulatives – we will ensure ensuring all participants have access to these prior to the workshops.

### What will you learn?

Participants and their schools will

- be confident in their understanding of teaching for mastery and its application to pupils with SEND, particularly of how representations (and structures) enable students to understand the mathematics and how these representations can be used through multiple years/topics, using the RTP guidance.
- increase their use of representation and structure to deepen the understanding of students with SEND.
- programmes of study will include elements of teaching for mastery including representation and structure.
- There will be increased engagement in lessons, improved attendance and improved progress.

### What is the specific focus?

<b>15 January 2021</b> 1 day workshop via Zoom (2 sessions am and pm)	Introduction to Teaching for Mastery. Growth mind-set and Mathematical Confidence. An introduction to variation (with a focus on representations)
<b>10 February 2021</b> 1 day workshop via Zoom (2 sessions am and pm)	Ready to Progress Guidance. Engagement, expertise and sharing of resources of primary representations/pupils working below age related expectations who access the primary curriculum. Secondary will focus on a carousel of activities using manipulatives and online tools.
<b>12 May 2021</b> Venue: Held at CLF Institute Bristol (or via Zoom if necessary)	Representation and Structure. Signposting relevant SKTM and looking at what is the same, what is different. Looking at use of Dienes, double sided counters, number lines including double number lines, Gattegno Chart, Bar modelling.
<b>July (tbc)</b>	SEND & Mathematics Conference

**Expectations of Participants and their Schools** - Schools must be able to commit to the full academic year's programme, with senior leadership releasing the same nominated teacher(s) for a total of three workshops across the academic year and one SEND & Maths conference, as well as classroom and school-based activity. The department will also support participating teachers to summarise the impact of Work Group participation as part of the professional development and Work Group evaluation.

**To book your place on this Work Group, follow the link [HERE](#)**

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