

# West Dorset Collaboration Maths Support

## Ruth Trundley

Maths leads in our schools have been working under the guidance of Dr Ruth Trundley in order to improve Maths across the collaboration. The work has been research based with collaborative tasks and common outcomes.

Ruth has considered, education language and meaning, the Ofsted Inspection Framework, Cognitive Science, Research Reviews, Curriculum Prioritisation, Assessment and professional development opportunities in the programme:

Key questions:

- *What is the intent of our schools?*
- *How can we know the quality of mathematics in our school and how it aligns with the principles reflected in our intent?*
- *How can we best use professional development in order to further develop teaching underpinned by our principles?*

Approach:

- Reflective journals to be provided and used throughout the year.
- Summary notes from each meeting to be shared with heads and school improvement partners.

Session 1

- Explore and share principles underpinning maths teaching and learning: relational understanding, working on not working through, teaching for mastery big ideas etc. – link to intent statements
- Consider expectations in relation to mathematical behaviours of learners i.e. how you would expect to see learners behaving in a maths lesson – shared observation of learners
- Examine Jurassic Maths Hub Teaching for Mastery statement as an intent statement for the hub. Consider two intent statements from other schools
- Coaching trios: share and compare school statements and consider in light of the hub statement; what key elements need to be in a shared intent statement.
- Agree elements of shared statement.
- Coaching trios: share action plan and explain the following:
  - The focus
  - The change you are aiming for in terms of the learners in your school
  - How this will be achieved - the PD programme
- Consideration of mixed-age

In-school

- Current school statement: does it articulate the approach to maths in your school and reflect principles? Revise intent statement as appropriate, informed by the shared intent and share thinking with head teacher
- Choose one aspect, from the school statement or the hub statement, which is a strength and shows the impact of work undertaken. Drop into lessons to examine and exemplify this across the school. Talk to target learners from the lessons. Collect observations to share at next meeting.

## Session 2

- Share observations from the in-school activity – clarify and gather strengths and discuss potential areas for development – implications for school statement
- Case study of one school: intent statement, interview with subject leader and classroom experience
- Coaching trios: articulate the thinking and approach behind school intent (as seen in the video)
- Focus on learners: consider the most powerful evidence of impact – the understanding demonstrated by learners. Explore sample questions modelled with children – what do they show?
- Plan for talking with learners

## In-school

- Talking with target learners from across the school using the agreed questions. Video and select short clip. Share observations with staff
- Talk to staff – what PD has had an impact on them? How? Consider if this was evident in the classrooms visited.

## Session 3

- Share observations from the in-school activity including video clips and identify implications – link to approaches to moderation
- Focus on Professional Development: consider collaborative planning as a PD activity; what does it offer that other PD does not offer? What opportunities are there for collaborative planning in your school?
- Shared experience with a focus on early years - engage in mathematical activity related to an area of the early years curriculum then collaboratively plan a session. Reflect on the role of the person supporting the collaborative planning.

## In-school:

- Lead collaborative planning with own early years staff for same area; video this. Select a short clip to share.
- Teach a group of children the planned session, observed by the staff and discuss observations. Video the session and select a short clip to share.

## Session 4

- Share observations from the in-school activity
- Continuing to develop mathematics with a teaching for mastery approach – what further work is needed. How can PD support this?

- Reflect on impact of work of the subject leader this year and next steps.