Using Physical Activity to raise attitudes and attainment in mathematics
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www.mathsoftheday.org.uk

Session Outcomes
To have a good understanding and knowledge of how active maths can:
✓ Increase levels of physical activity
✓ Raise attitudes towards maths
✓ Raise attainment in maths
✓ Contribute to whole child development / whole school development
...and feel confident to apply this to my school setting.

WHY IS PHYSICAL ACTIVITY IN SCHOOLS IMPORTANT?

The way we live.

80% of girls and 77% of boys failing to meet the national recommended amount of daily physical activity.
One in three children in Year 6 is overweight or obese (boys 35.4%, girls 32.4%)

One in five children in Reception is overweight or obese (boys 23.5%, girls 21.6%)

Evaluation by the National Obesity Observatory Shows

Activity – Discuss
- Where are you at?
- Who is responsible for this?
- Most challenging word?

“Every primary school child should get at least 60 minutes of moderate to vigorous physical activity a day. At least 30 minutes should be delivered in school every day through active break times, PE, extra-curricular sports, active lessons, or other physical activity events, with the remaining 30 minutes supported by parents and carers outside of school time.”

WHAT ARE ATTITUDES TO MATHS LIKE IN YOUR CLASS/SCHOOL?
WHAT IS ATTAINMENT TO MATHS LIKE IN YOUR CLASS/SCHOOL?

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Jenny Rainbow, Headteacher, Marazion Primary School

“Active maths has clearly impacted on children’s attitude, engagement and enthusiasm.”
Jenny Wickett, Headteacher, Horsforth St Margaret’s CE Primary School

“Active maths has clearly impacted on children’s attitude, engagement and enthusiasm.”
Nicola Booth, Headteacher, Gwlady’s Street Primary School

“Active maths has clearly impacted on children’s attitude, engagement and enthusiasm.”
St Oswald’s Catholic Primary School

Between the ages of seven and nine, children’s interest in maths dips
17 million adults in the UK have such poor numeracy skills that they can’t understand deductions on wage slips, read bus timetables or pay household bills

Parents pass on their own lack of enthusiasm and confidence to the next generation.

Children as young as nine are expressing negative feelings towards mathematics

England has one of lowest rates of young people continuing with maths beyond 16.

“Being "no good at maths" carries little stigma.

“Children’s enjoyment of mathematics has increased and all children took forward to their active maths lesson.”
Alison Booth, Headteacher, Seaford’s Street Primary School

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“The best way to overcome negative attitudes to maths is to link it to something they love.”

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Research Findings

The findings suggest that physically active academic lessons should be part of the school curriculum because it is an innovative and effective way for teachers to improve children’s academic achievement. Physical activity should specifically be integrated into math’s lessons to optimally improve those important skills.

“Physically active academic lessons significantly improved mathematics performance of elementary school children and are therefore a promising new way of teaching.”

The 3 main aims of the math’s curriculum

Mastery

• Whole class moves through content at the same pace
• Time to think deeply about the maths
• Builds self-confidence in learners
• Differentiates through depth rather than acceleration

Number Talk is the first step in any learner’s journey. A pupil must be able to describe, to explain and to reason what they see, what they are doing and the process they have followed.

Number Talk gets all children involved, helps them strengthen fluency, intuition and mental maths strategies and improve their ability to explain and critique solutions.

WHAT ARE THE BARRIERS FOR TEACHERS AND SCHOOLS?
Townfield Primary School

“As a result of the impact of Maths of the Day, children (across all year groups) are now attaining well above the national average in maths. Pupil Premium children have made exceptional progress.”

“Maths of the Day gives us the tools we need to get our children up and active and enjoying maths again.”
Doug Stitcher, Headteacher

YST & MOTD Course Offer:
Enter voucher code at www.mathsoftheday.org.uk to order Maths of the Day = £645 (normal price).
or email maths@motd.org.uk or call MOTD on 01244 515 556

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Next steps at your school...
- Active maths within your school?
- Maths of the Day within your school?