




Using Physical Activity to raise attitudes and attainment in mathematics

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www.mathsoftheday.org.uk @MathsoftheDay

Session Outcomes

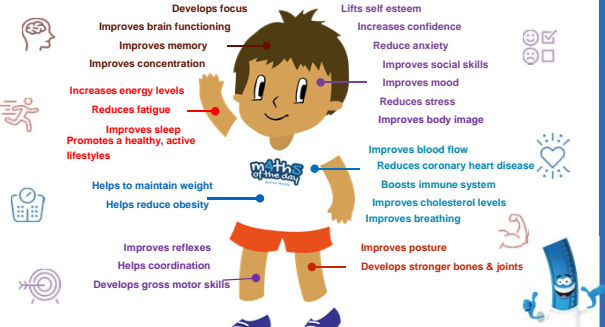
To have a good understanding and knowledge of how active maths can:

- ✓ 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?




- Develops focus**
 - Improves brain functioning
 - Improves memory
 - Improves concentration
- Lifts self esteem**
 - Increases confidence
 - Reduce anxiety
 - Improves social skills
 - Improves mood
 - Reduces stress
 - Improves body image
- Increases energy levels**
 - Reduces fatigue
 - Improves sleep
 - Promotes a healthy, active lifestyles
- Improves blood flow**
 - Reduces coronary heart disease
 - Boosts immune system
 - Improves cholesterol levels
 - Improves breathing
- Helps maintain weight**
 - Helps reduce obesity
- Improves posture**
 - Develops stronger bones & joints
- Improves reflexes**
 - Helps coordination
 - Develops gross motor skills

The way we live.




"You don't double-click it, dear. It's a ball."





80% of girls and 77% of boys failing to meet the national recommended amount of daily physical activity.




Evaluation by the National Obesity Observatory Shows

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



One in three children in Year 6 is overweight or obese (boys 35.4%, girls 32.4%)



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 clubs, active lessons, or other sport and 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?

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



Between the ages of seven and nine, children's interest in maths dips

Being "no good at maths" carries little stigma.

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

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


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

“Active maths has clearly impacted on children's attitude, engagement and enthusiasm”
Jenny Rainbow, Headteacher, Marazion Primary School

Children's enjoyment of mathematics has increased and all children look forward to their active maths session
Nicola Booth, Headteacher, Gwladys Street Primary School

“As a result of introducing active maths, the school quickly noticed a positive change in attitudes of all children in the class”
Jenny Wickett, Horsforth St Margaret's CE Primary School

In every class throughout the school, attitudes to maths had improved and children were thoroughly enjoying the lessons. Improved attitudes made for a 'love of learning'
St Oswald's Catholic Primary



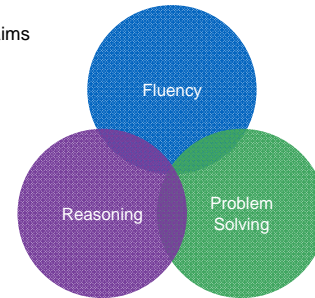
Research Findings

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 learners 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"

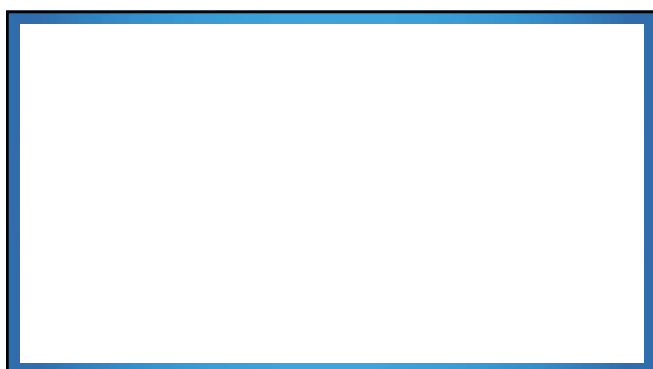
"Maths of the Day gives us the tools we need to get our children up and active and enjoying maths again"

Doug Sticher, Headteacher








YST & MOTD Course Offer:


Maths of the Day = £645 (normal price).



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Next steps at your school...

- Active maths within your school?
- Maths of the Day within your school?





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