5 reasons why your school should be using Mathletics
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Mathletics is an essential, multi-award-winning resource used by more than 5,000 schools across the UK. It is proven to significantly improve results and pupil engagement in maths.
Mathletics is proven to improve results and support pupil growth by:

**Significantly improving levels of attainment and progress**

The University of Oxford carried out a study of more than 13,000 schools in England to assess the impact of Mathletics on Key Stage 2 SATs results in maths. The study found that schools that made regular use of Mathletics did significantly better on a range of measures, compared to schools that did not use Mathletics.

Regular use of Mathletics was defined as pupils completing 3 or more curriculum activities per week (equating to as little as 20 minutes). Where this level of usage was achieved, the study found:
- More pupils making at least 2 levels of progress
- More pupils achieving at least a level 4
- More pupils achieving a level 5 or 6

**Proportion of pupils achieving at least 2 levels progress in KS2**

<table>
<thead>
<tr>
<th>Year</th>
<th>Proportion</th>
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<tbody>
<tr>
<td>2012</td>
<td>87</td>
</tr>
<tr>
<td>2013</td>
<td>89</td>
</tr>
<tr>
<td>2014</td>
<td>90</td>
</tr>
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<table>
<thead>
<tr>
<th>Proportion of pupils making at least 2 levels progress (%)</th>
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<tbody>
<tr>
<td>3+ Mathletics activities per pupil per week</td>
</tr>
<tr>
<td>No Mathletics</td>
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**Providing comprehensive support for SATs preparation**

**Arithmetic and Reasoning Practice SATs Assessments**
- Mathletics contains a bank of assessments based on the challenging sample assessment material and new SATs format.
- Online timed assessments help pupils acclimatise to exam conditions.
- Questions are automatically marked.

**Early Intervention with Gap Analysis and Diagnostic Reporting**
- The assessment reporting tool diagnoses pupil knowledge gaps against curriculum outcomes.
- Teachers can instantly reassign activities based on pupil results ensuring effective intervention, targeted for each pupil.

**Curriculum-aligned Activities and Revision Tools**
- Mathletics courses provide comprehensive coverage of the 2014 national curriculum for England.
- Engaging interactive content reinforces pupils' conceptual understanding and builds mathematical fluency, problem solving and reasoning through practice.
- Pupils are encouraged to use the interactive support available to consolidate and revise concepts taught in the classroom.

Download the full report at www.mathletics-advantage.uk
1. **Mathletics is proven to improve results and support pupil growth by:**

   - **Helping close the attainment gap for FSM (Pupil Premium) pupils**
     
     The University of Oxford study found that schools using Mathletics regularly performed significantly better in KS2 SATs on a range of measures, compared to schools that did not use Mathletics. Specifically with regard to FSM pupils, the research found that:
     
     "Schools with a large proportion of pupils eligible for FSM that use Mathletics regularly have a significantly higher proportion of pupils making at least 2 levels of progress compared to schools with a similar proportion of pupils claiming FSM that do not use Mathletics."
     
     ![](chart.png)

   - **The 2015 winners of the National Pupil Premium Awards, Parkfield Community School, used Mathletics to help close its FSM attainment gap:**
     
     "The outcomes have been stunning. 82% of our pupil premium pupils achieved the expected standard in KS2 tests – and 78% achieved at a level above the standard (level 4b+), compared with the national average of 53%.”

     Helen Hackett,
     Maths Lead & Assistant Head Teacher
     Parkfield Community School, Birmingham

     Download the full report from the University of Oxford at www.close-the-attainment-gap.uk

2. © 3P Learning
5 reasons why your school should be using Mathletics

Mathletics generates captivation and engagement by:

- Increasing levels of pupil engagement, confidence and motivation in maths

One of Mathletics’ key benefits is its ability to captivate and challenge pupils in a stimulating, interactive environment.

This is achieved in the following ways:

- A whole host of engaging activities and content which makes learning maths fun and exciting.
- Earning points, credits and weekly certificates motivating learners not only to enjoy maths but to strive for better results.
- The Global Hall of Fame – appealing to those who wish to see their name ‘up in lights’ and become a maths legend around the world.
- The competitive dimension of the Live Mathletics game and the creation of their personal avatar.
- Assigning appropriate work for each pupil challenging those who need to be challenged, and supporting those who need to be supported.

An independent survey of teachers using Mathletics found that...

<table>
<thead>
<tr>
<th>Percentage</th>
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<tbody>
<tr>
<td>97%</td>
<td>of teachers agreed that “Mathletics improves pupil engagement with maths”</td>
</tr>
<tr>
<td>97%</td>
<td>of teachers agreed that “Mathletics develops greater confidence in maths”</td>
</tr>
</tbody>
</table>

Data from independent user survey, conducted by C3 Education in March 2016 (393 teacher responses)

What teachers are saying about Mathletics and pupil engagement...

“Mathletics has given maths in the school a higher status, a more ‘cool’ status. It’s really put maths at the forefront of pupil’s learning. If you ask the children, I would say 95% say maths is their favourite subject and Mathletics has helped that tremendously.”

Snowfields Primary School

“Our KS1 pupils enjoy Mathletics because it’s so interactive which has got them really engaged in maths. They love how bright and colourful it is. Mathletics has really benefitted our KS2 pupils by helping to build up their confidence in maths and improving their mental arithmetic. It’s great for developing confidence and getting children more engaged in maths.”

St Mary’s Catholic Primary

“I can’t believe schools don’t have Mathletics but if you don’t, then you need to get it into your school, it’s an absolute winner. There is not a sad face when a child is logged onto Mathletics.”

Kilburn Park Foundation School

“Parents love it, children love it, but most importantly it really engages the children and makes them excited about maths.”

The Russell School
Mathletics generates captivation and engagement by:

🌟 Assisting in building family engagement

**Mathletics is shown to assist in building parental engagement**

Mathletics is being used by many schools to help establish a stronger link between home and school — allowing parents to take an active role in supporting their children’s maths and numeracy learning at home. Parents can register for their own account where they can track their child’s progress in maths and sign up for weekly email updates.

What teachers are saying about Mathletics and parental engagement...

“The feedback from parents has been very positive, as it enables them to see the teaching methods that are being used in the classroom. In addition, our Mathletics coordinator celebrates pupils’ success through the use of the Mathletics Wall of Achievement, posting photographs and writing regular updates for the school newsletter. Mathletics now forms an integral part of the school’s numeracy improvement strategy. So far, the results are encouraging and the response from the pupils and parents even more so.”

St Kentigern’s Academy

“All the parents I’ve spoken to love Mathletics. They like the fact that their children are excited about doing maths and excited about doing their homework. It’s something parents can sit down and do with their children which they seem to enjoy. It takes the pressure off teachers by not always having to provide parents with more and more information. There’s so much on Mathletics and it’s so easy to access for both pupils and parents.”

Christ The Saviour CoE Primary

We’ve found that a lot of parents absolutely love Mathletics. They’ve signed up to the parent registration whereby they get a weekly email about their child’s strengths and weaknesses.

Sign up for weekly updates at www.mathletics.com/parent
5 reasons why your school should be using Mathletics

Mathletics contains fully aligned curriculum content, supporting a mastery approach which:

🌟 Develops the core skills of mathematical fluency, problem solving and reasoning

Mastery of maths means a deep, long-term, secure and adaptable understanding of the subject. Mathletics offers 1,400 adaptive, curriculum aligned activities to provide full curriculum coverage from Foundation stage to KS4. Mathletics courses are carefully designed to address the age related expectations in the curriculum and to support a mastery approach through the development of core mathematical fluency, problem solving and reasoning skills.

- Mathletics allows pupils to secure number facts whilst also building speed, accuracy and agility.
- Carefully scaffolded questions and models develop both procedural fluency and conceptual understanding.
- Fun, fast paced live mental maths challenges build confidence and motivation.

↑ Fluency

- A variety of problem solving activities and interactive eBooks with videos develop enquiry-based learning, allowing pupils to apply their mathematical skills within everyday situations.
- Pupils formulate mathematical expressions to represent and solve real-world problems.
- Lesson notes for teaching problem solving techniques and strategies accompany investigations for pupils to complete.

🛠️ Problem solving

- Effective questioning enables pupils to explore relationships and explain the reason for their answer.
- Mathletics contains a host of interactive rich learning tasks that have been developed with world renowned academics and teachers to support a mastery curriculum.
- Tasks are open-ended with multiple possible outcomes catering for different ability levels, encouraging enquiry-based learning and reasoning skills.
- An animated maths dictionary equips pupils with the accurate mathematical vocabulary appropriate for mathematical reasoning.

🔍 Reasoning

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5 reasons why your school should be using Mathletics

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Mathletics contains comprehensive curriculum content, supporting a mastery approach which:

🌟 Informs next steps in teaching and learning with powerful diagnostic reporting and assessment tools

Teachers have access to Mathletics reports that provide an instant snapshot of class and pupil attainment and progress, with both numerical and graphical representations. This is especially useful in the absence of national curriculum levels and reports can be exported to Excel, providing the flexibility to incorporate Mathletics results into schools’ own assessment frameworks.

For Multi Academy Trusts and other related groups of schools, the reporting can encompass all schools within the group, providing a holistic view of performance in maths.

The reporting console provides Senior Leaders and Curriculum Co-ordinators with a snapshot of usage and improvement across a group of schools, as well as highlighting strengths and weaknesses in relation to topics or ‘strands’.

All pupil work is automatically marked and analysed, instantly highlighting strengths and weaknesses in relation to curriculum expectations and outcomes. Based on those strengths and weaknesses, Mathletics suggests targeted activities that will extend or support pupil learning.

Teachers have access to Mathletics reports that provide an instant snapshot of class and pupil attainment and progress.

What teachers are saying about assessment and Mathletics…

“The Assessments and Reports on Mathletics are very clear. It is easy to establish who’s doing what and how well children are doing. In the SATs year you are trawling through hundreds of papers trying to do gap analysis to find out where children need to improve, whereas with Mathletics you simply click on the ‘Reports’ and you get a breakdown of it all for you. It’s worked out all the percentages and which children need to work on what areas to improve. You can tailor Mathletics so specifically to each child that you’re not teaching a whole block lesson where 10 children already know how they do it. It allows you to differentiate and be diverse in class with what you are teaching and to whom.”

Christ The Saviour CoE Primary
Mathletics makes differentiation easy with personalised learning to meet the needs of every pupil:

Creating a truly personalised learning experience requires an emphasis on the whole pupil. Each learners’ needs and learning styles, mixed with their personalities and interests makes them unique. Mathletics empowers learners to feel confident and motivated to think critically, make learning choices, seek support and reflect on their learning.

Ofsted looks for evidence that the specific support needs of various pupil groups are being met

This would include FSM, the most able, lower-attaining pupils and pupils with SEN.

By default, pupils will be assigned to the national curriculum course in Mathletics that corresponds to their year group. However it is likely that a teacher would have pupils of mixed abilities. Mathletics provides teachers with the ability to effectively differentiate and personalised learning for every pupil:

- Real-time results data allows teachers to easily identify learning gaps, enabling them to easily and quickly assign work to address the weaknesses.
- Teachers can assign different activities or whole courses to groups or individual pupils, according to their ability and level of conceptual understanding.
- They can also create bespoke courses, tailored to the specific individual needs of groups or single pupils.
- Pupils can be assigned to multiple courses, enabling them to consolidate previous years’ content whilst simultaneously working on the current year’s programme of study at the same pace as the rest of the class. This ‘secret setting’ means they are not made aware that they might be working at a lower level so their self-esteem, confidence and motivation are not negatively impacted.

What teachers say

“With Mathletics, because it’s personalised it means we can set core exercises, but if children find those a bit too easy they can go onto something a bit harder, or if they find it tricky they can go onto something easier. Obviously that’s better for the children, it’s much more motivational and engages them a lot more.”

Sue Webb, The Downley School, High Wycombe

“I also find that as a teacher Mathletics allows me to differentiate really effectively between the children in my class. It’s possible to set different tasks at different levels for different children or individuals. The children can therefore work at a level that’s appropriate for them.”

Sue Larson, Christ the Saviour Primary School, Ealing

“You can tailor Mathletics so specifically to each child that you’re not teaching a whole block lesson where ten children already know how to complete the work. Mathletics allows you to differentiate and be diverse in class with what you are teaching and to whom.”

Matthew Taylor, Christ the Saviour Primary School, Ealing
Mathletics can play a key role in encouraging a ‘growth mindset’ in maths which fosters critical thinking and inquiry skills, creating lifelong learners:

Mathletics values the individual pupil. Teachers can ensure that the curriculum is at the correct level, while not taking away from the look the child has created.

Mathletics provides continuous positive reinforcement. Pupils are rewarded for improvement and attainment by earning points, credits and certificates.

Mathletics encourages children to practise. Gold Certificates require 20 weeks of work, keeping pupils engaged and practising over a length of time, helping them to build up a good learning habit and develop resilience.

Mathletics values effort. Children achieve more credits when they improve their scores, than when they win. Everyone can get onto the Hall of Fame – it requires effort and participation, not ability. Mathletics empowers pupils to choose their level and access the interactive animated support centre and maths dictionary when necessary.

The clear reporting on progress allows pupils to become reflective learners, reviewing their own progress. After completing an activity pupils are show a progress graph. They are also given the chance to review their answers. The ‘Try Again’ button encourages pupils to have another go.

What teachers say

“Mathletics is always the most popular choice of activity. The greatest thing about it is that it makes all children, regardless of ability, see themselves as successful mathematicians.”

Whingate Primary

“Mathletics has definitely helped us create a ‘can do’ attitude towards maths in our school. Our children enjoy using Mathletics and don’t realise they are actually doing any maths. They are more engaged in maths and their confidence in the subject has increased.”

William Marshall Primary

“I would definitely recommend Mathletics to other schools. It’s a really positive way of engaging pupils in maths in the classroom and at home, particularly for pupils who might be reluctant mathematicians or feel that they are no good at maths. We’ve found that Mathletics is a really good way of building their confidence.”

Christ The Saviour CoE Primary
Spellodrome is a digital resource that helps children to develop their spelling, writing and communication skills, to support them in the ‘GPS’ (or SPAG) elements of the new English curriculum. It offers pre-populated 2014 curriculum-aligned word lists for KS1 and KS2, as well as word lists that can be customised (from more than 10,000 words) to your own specific needs; fun and engaging pupil activities based on your word lists; extensive printable worksheets focusing on spelling practice, grammar and punctuation; tools to develop writing skills and online standard benchmarking tests.

Reading Eggs is a digital resource for literacy, designed to help teach children how to read and to develop a love of reading. With 120 phonics and 200 comprehension lessons; a library of 2000 eBooks with comprehension tests; a teacher toolkit with lesson plans, comprehensive reporting and ‘big books’; online spelling, punctuation and grammar games plus creative writing areas, Reading Eggs provides you with all the tools you need to raise the profile of reading and nurture high literacy standards.

Mathseeds is a digital resource, created specifically for the needs of early maths learners from Reception to Year 2. Mathseeds maximises student engagement with built-in diagnostic assessment, hundreds of highly interactive, sequential activities, fun games and a powerful reward system. It is an academically rigorous maths program that pupils love.