

Make a change with SAMSON Maths



You will significantly increase your School's Maths Attainment.

Fun Maths...

...for P1 - P7

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The **Strong** approach to maths

GUARANTEED*

www.strongmaths.co.uk

SAMSON - Based on a wealth of experience





I have been teaching in Primary Schools for over 25 years and almost 20 in a large school in Dumfries and Galloway with around 390 pupils.

I have taught in Primary 7 for over ten years but in my role as Depute Head, I have also been able to work alongside teachers across the school.

SAMSON was a response to the apparent fall in numeracy standards as outlined by the results from the Scottish Survey of Numeracy.

It was first trialled in Primary 7 and then Primary 6. In the last two years it has been developed and tried out in Primary 4 and 5. The programme is now complete from P1 to P7.

The aim with **SAMSON** was to create a structured and systematic programme for maths that could work in any school and that any teacher could deliver with minimal preparation for maximum impact on learning.

The key to its success is not so much what is taught but *how* you teach it. There are no gimmicks and things are kept simple so as not to confuse children. **SAMSON** provides the opportunity for all teachers to develop an interactive teaching style that is backed up by questioning and discussion with the children. It also gives all children the opportunity to succeed and will be a valuable resource in trying to raise attainment while closing the gap between the higher and lower achievers within any class, school or cluster. The results prove that it works and because of this I felt it was time to make it available to all schools.

I hope you enjoy using **SAMSON** and that it will help you and your pupils develop the same levels of improvement and motivation in numeracy as I have noted in my experience. The attainment figures on page 6 clearly evidence this.

Neil Armst

Managing Director, Strong Maths

SAMSON is a teaching approach which is GUARANTEED* to significantly raise pupil attainment in mental maths.

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If used properly throughout all school years

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Ten Key Features of SAMSON

How many hot dogs did they buy in

27+38=

340÷17=

368 0 657 0 479 0 67.9 0 79.8 +489 +496 +87.4 +68.7 +89.6

5 1 6 0 4 2.4 3 8.7 8 1 5.2 4 2 1





SAMSON	uses creative, innovat	ive resources:
	Mental Flipcharts (MF)	
2 9 6 + 5 4	for each class P1-P7	Mental Maths Flip

for each class P1-P7: each flipchart has 10 questions on flashcards for teaching from or testing.

Mental Flipcharts (Word Problems)

The Mental Flipcharts also contain five word problems set in a circus context.

Mental Strip Sheets (SS)

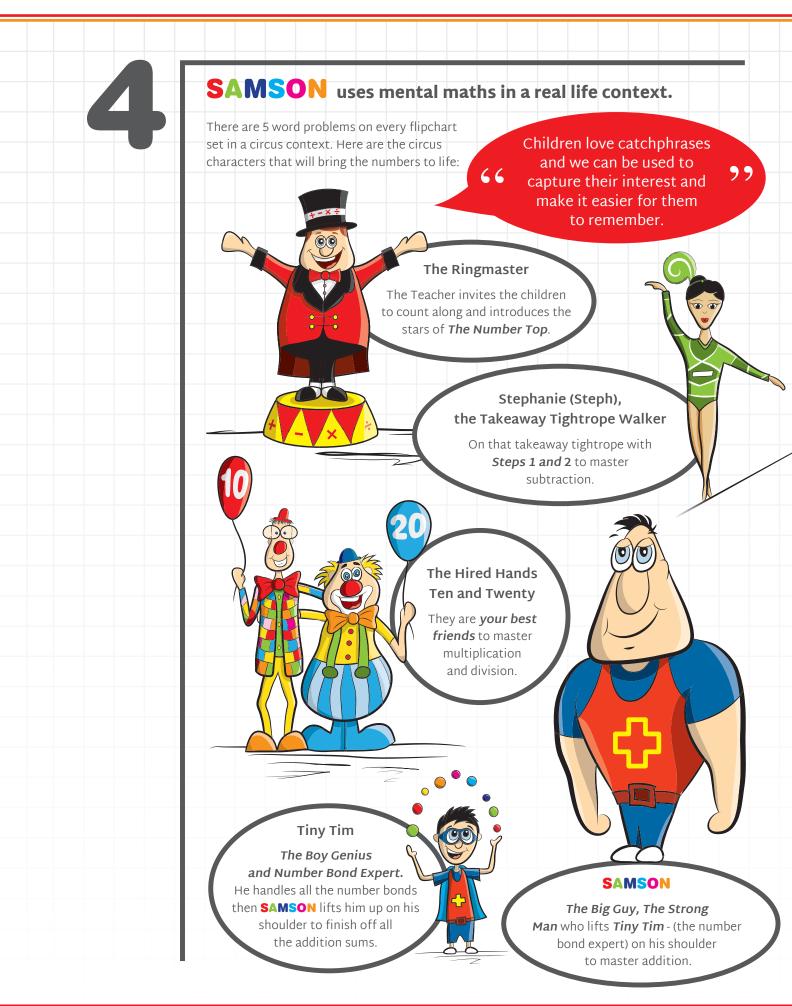
go along with each flipchart: each strip sheet has the same ten questions that are on the flipchart. Mental Maths Flipcharts (MF) & Strip Sheets (SS) and Timed Challenge Sheets. (TCS) These SAMSON maths resources can run alongside any core school programme of work for maths.

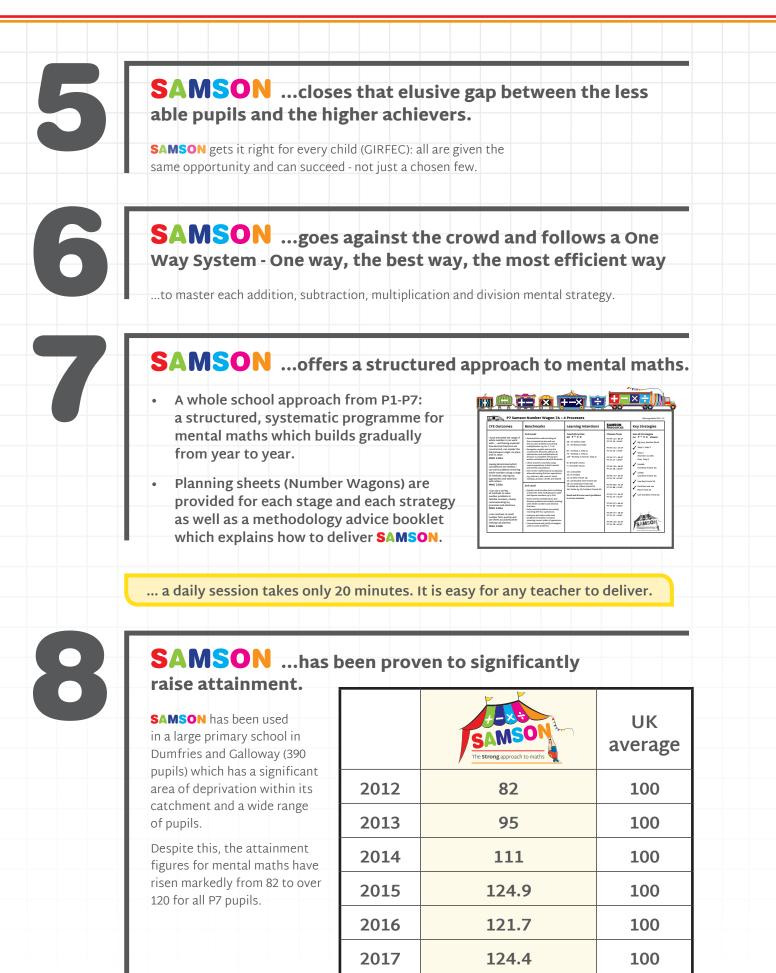
Mental Flipcharts (MF) for each class P1-P7: each flipchart has 10 questions on flashcards for teaching from or testing as well as five word problems set in a Circus context.

Timed Challenge Sheets (TCS)

are used separately, but alongside mental flipcharts and strip sheets to:

- a) Help children learn table facts and number bonds.
- b) Provide deliberate practice in specific areas of maths.







...in classrooms, with children and alongside teachers from P4-P7. The material was first trialled in P7 and then working alongside teachers and pupils in P4, 5 and 6.

SAMSON ...gets the balance right between procedural fluency and number sense.

- Children can apply the mental strategies and skills to all areas of maths.
- They develop number sense and become good decision makers.
- **SAMSON** helps confidence and encourages flexibility and creativity with numbers.









Katie, who looks after the elephants in the circus, earns £15 per hour.

If she worked for 14 hours, how much did she earn in total? $15 \times 14^{0} \times 15^{0} + 4^{0} \times 60^{150}$

There is maximum impact on learning for very little time and preparation.

e: info@strongmaths.co.uk

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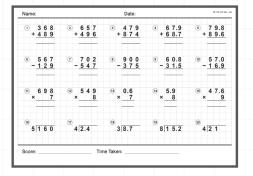
SAMSON: What you get in your folders...

The **SAMSON** folders have been created for a whole school approach P1 - P7.



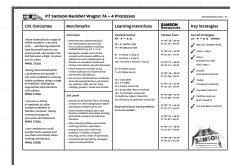
Folders P1 - P7

P3 -P7 Timed Challenge Sheet worksheets (TCS) for deliberate practice in key areas of maths. Timed Challenge Sheet worksheets (TCS) for the four processes.





P1-P7 Planning grids for the **SAMSON** Number Wagons.

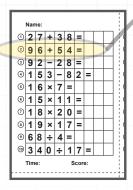


OVER 5000 PHOTOCOPIABLE MASTER COPIES

PRINTED COPIES (one in each folder)

Teaching Advice Booklet

P1-P7 Strip Sheet worksheets (SS).

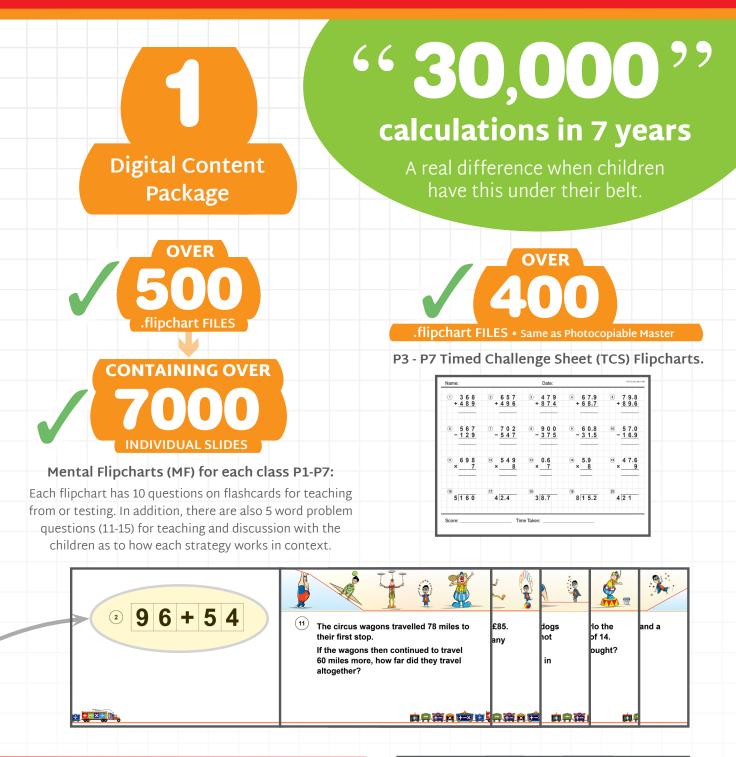


It is time for a change: the status quo is not an option. Don't continue with what hasn't worked in the past.

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SAMSON: What you get in your digital content package...



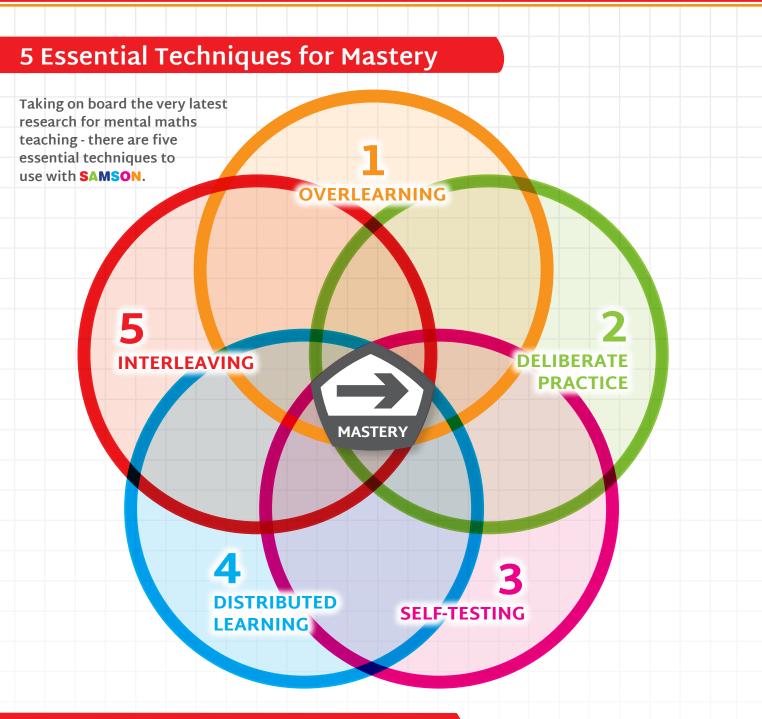
Classroom Posters

Classroom posters are available at additional cost contact **info@strongmaths.co.uk** for full pricelist.

Flipchart Content

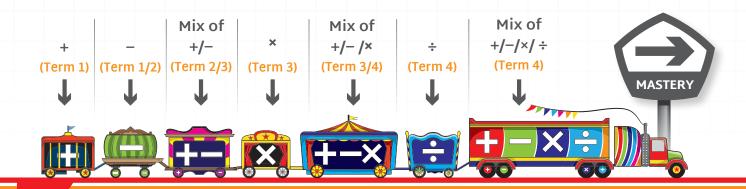
The flipcharts have been created for use on an interactive classroom whiteboard.

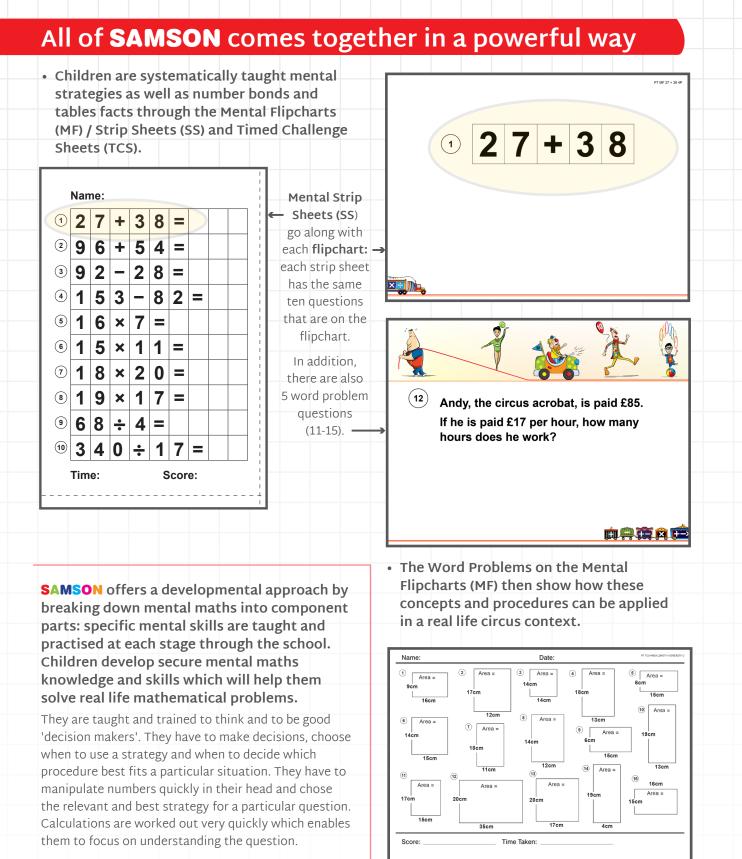




SAMSON Number Wagons

These set off from P1 and make their way through each stage following a distributed learning approach. This example shows how **SAMSON** can be distributed throughout P4 or P5.





- They take all knowledge and skills learned through **SAMSON** and apply these in independent work such as textbook tasks or real life problems.
- The mental strategies are linked to Deliberate Practice Timed Challenge Sheets (TCS) in key areas of maths such as area.

Evidence

Comments from pupils:

The 20 question sheets have helped me massively especially with number bonds. The math challenges and flipcharts have helped with my speed and accuracy.

> The timed sheets were really good because they helped me improve in my mental maths.

"

of timed strips and I am getting faster and faster. I understand what to do and I can do Big Guy number bond, step 1 step 2, and use best friends 10 and 20.

In P7 we do a lot

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I am getting faster at the timed sheets + - x and divide. They are easier now thanks to the Big Guy step one step two and best friends 10 and 20.

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In P7 maths was hard for me but with Mr Armstrong teaching us steps and different ways to do them, I have began to get quicker and smarter. Doing timed sheets we get smarter and faster.

They have been a massive help because when I first came into 77 I was getting 15/20 in 4mins 30 seconds and I am now getting 20/20 in 2mins 6 seconds. Maths is one of my favourite subjects. I have got sharper at maths by doing timed sheets and strip sheets. I now have a faster time and am getting more accurate and much more confident.

I think when we do the maths timed sheets in the morning it helps us get faster and learn our sums quicker. It helps me learn when we do Big Guy number bond and step 1 step 2.

> Flipcharts have helped my mental agility: they are getting me to understand
> and I'm getting better and
> faster scores. I am quite confident at dividing and multiplying and I use Big Guy, number bond.

Transition to Secondary School

Since 2014-15: 70% of the top set (doing 1st year maths) have been from the **SAMSON** school.

Comments from secondary school maths teachers:

The **SAMSON** children stick out like a sore thumb. SAMSON children are
streets ahead.