

Newman Catholic College

Introduction to Sparx Maths

Tuesday 28th September 2021

Ms Vitamore and Ms Palmer

Agenda:

- Why Sparx Maths
- How Sparx Maths Works
- Supporting Your Child

Why Sparx Maths

“Time spent using Sparx Maths is positively and significantly associated with higher outcomes in maths”



EUROPE



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[Microsoft Word - Independent Analysis of the Relationship Between Sparx Maths and Maths Outcomes key findings_FINAL.docx \(cam.ac.uk\)](#)



Newman
Catholic College
Excellence Through Faith

Why Sparx Maths

Sparx Maths creates an hour's worth of **perfectly tailored practice homework** for each student each week.

The practice is both **challenging** (to ensure students need to think) and **achievable** (so that students can be successful).

The practice uses **spaced repetition and interleaving** to support a change in students' long term memories.

Sparx is **inclusive** and can adapt to all students' current level of expertise. This promotes **engagement, confidence** and ultimately **learning**.

Why Sparx Maths

The Sparx Content Design Team is made up of teachers, mathematicians, data scientists, graphic designers and grammar experts. The team has spent 10 years working with schools and using qualitative and quantitative data to carefully design a library of over 45,000 mathematical questions and 10,000 videos to ensure that:

- genuine learning is promoted for all students;
- misconceptions are addressed;
- learners are carefully led step-by-step through every topic;
- links are built between topics where possible;
- and learners are prepared for their future.



Why Sparx Maths

Bookwork codes - A unique and clever bookwork check technology to ensure that students habitually write workings down to foster good practice and aid memory.

10,000 videos - Every question is accompanied with a short nudge video to unstick students so they are supported and don't lose motivation.

100% completion target for all students - Empowered by our content and personalisation, which pitches homework appropriately for all students, we can set a fair expectation that all students complete 100% of their hour long compulsory homework every week. This clarity of mission empowers students, parents, teachers and schools to have the highest of expectations around home practice and promotes consistency across our schools.

In-built retrieval practice - Our systems create interleaved homework made up of topics from recent lessons and topics from further back to promote longer-term retrieval practice.

How Sparx Maths Works

The screenshot shows the Sparx Maths website. At the top left is the logo 'Sparx Maths'. To its right are navigation links: 'For Teachers', 'For School Leaders', and 'Our Impact'. Further right are two buttons: 'Register interest' and 'Log in'. A dropdown menu is open under 'Log in', showing 'Teacher login' and 'Student login'. Below the navigation is a large teal and blue graphic. In the foreground, there are three devices displaying the Sparx Maths interface: a laptop showing a teacher dashboard for 'Roisin Sullivan' with '1 Incomplete' and '6 Complete' tasks and '32,000 XP' earned; a tablet showing a student progress screen with 'Sparx Level 3' and '32,000 XP' and a progress bar with stars for levels 1-6; and a smartphone showing a student login screen with fields for 'Email address' and 'Password'.

Personalised intelligent practice, proven to boost student grades

- ✓ 1 hour of Sparx Maths a week significantly improves student grades
- ✓ Can save up to 200 hours of teacher time per year
- ✓ Covers ages 11-16 for UK and international mathematics curricula
- ✓ Provides powerful, actionable insights for school leaders and teachers
- ✓ The market leaders in maths

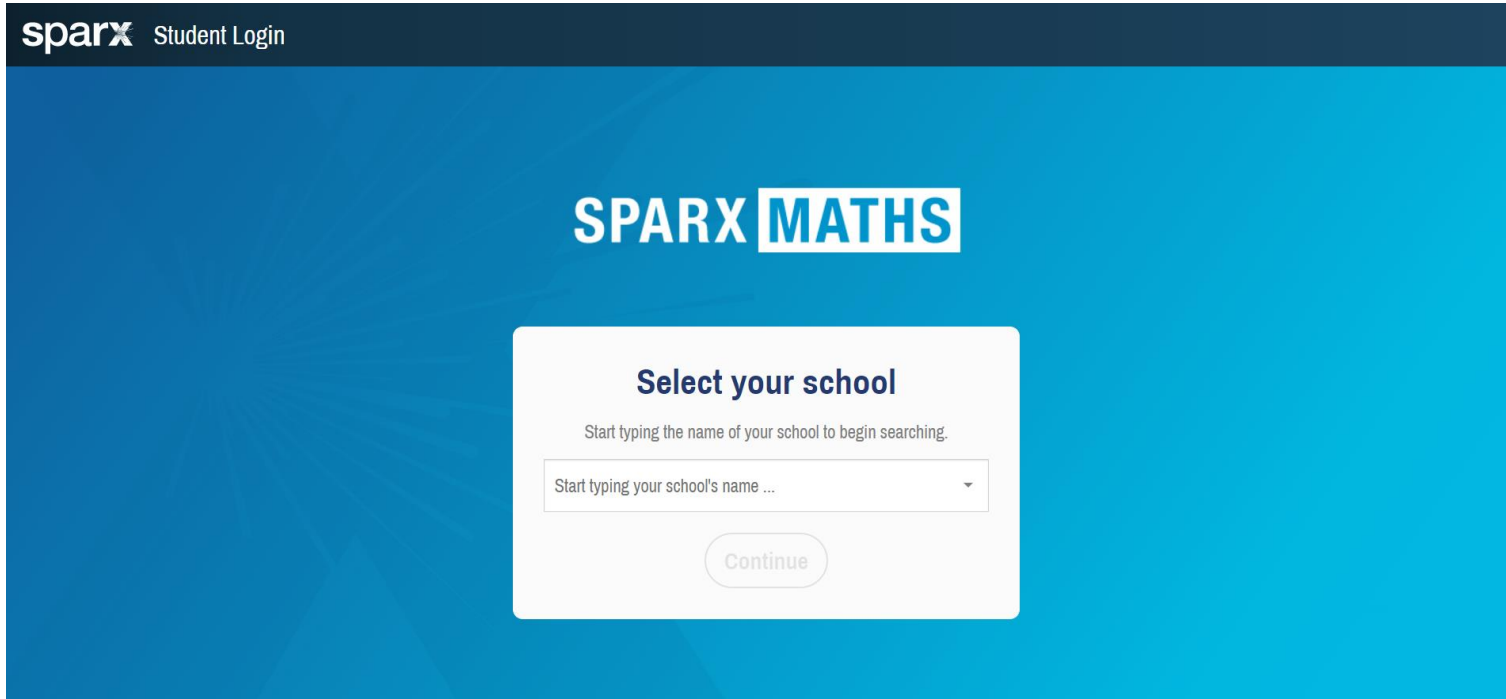
Register now

Go to www.sparx.co.uk

Click 'Log in'

Select 'Student login'

How Sparx Maths Works



sparx Student Login

SPARX MATHS

Select your school

Start typing the name of your school to begin searching.

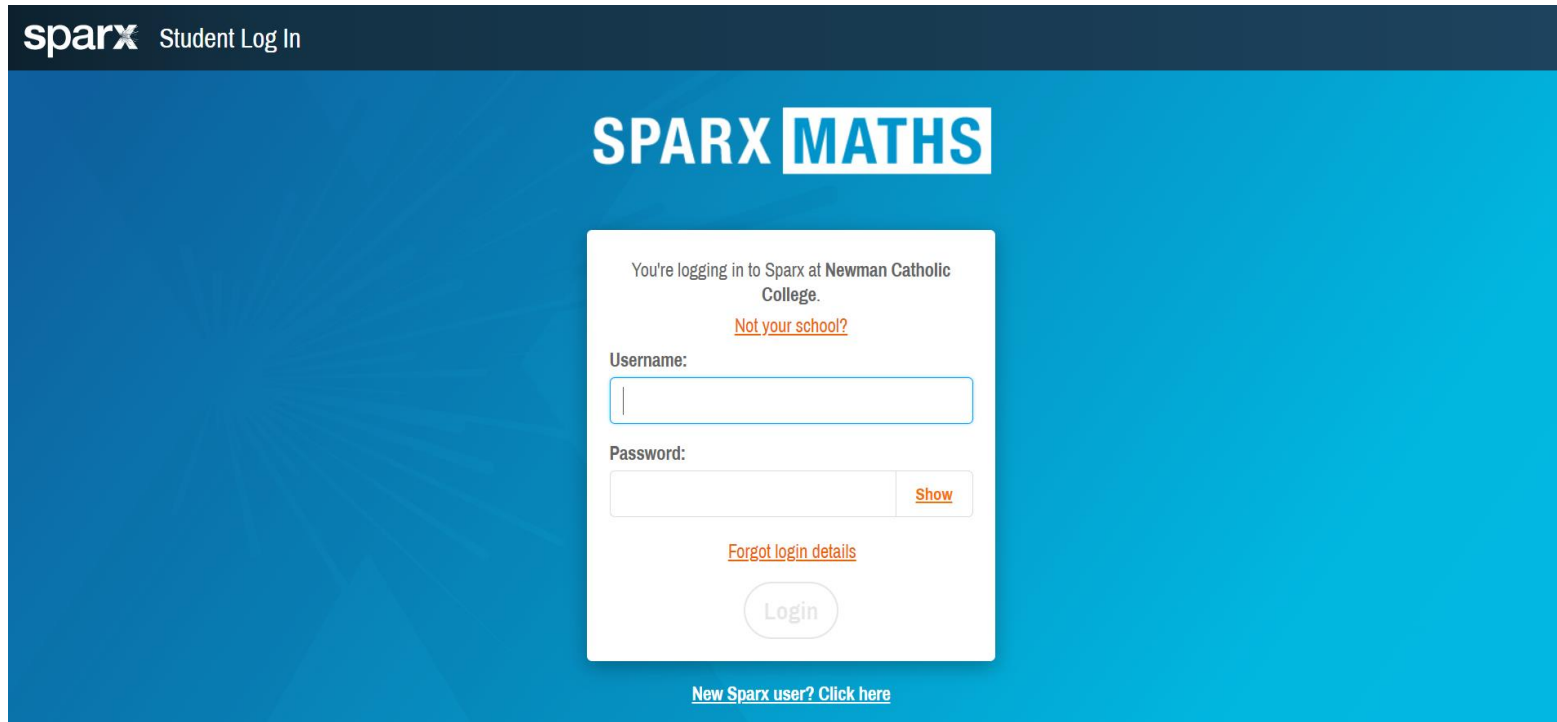
Start typing your school's name ...

Continue

Search for

Newman Catholic College
London

How Sparx Maths Works



The screenshot shows the Sparx Maths Student Log In interface. At the top left, there is a dark blue header with the 'sparx' logo and the text 'Student Log In'. Below this is a large blue banner with the 'SPARX MATHS' logo in white. The main content area is white and contains a login form. The form starts with the text 'You're logging in to Sparx at Newman Catholic College.' followed by a link '[Not your school?](#)'. Below this are two input fields: 'Username:' with a text box and 'Password:' with a text box and a 'Show' button. Under the password field is a link '[Forgot login details](#)'. At the bottom of the form is a 'Login' button. Below the form is a link '[New Sparx user? Click here](#)'.

Enter Username and Password

Or

Select 'forgot login details' to reset the password

How Sparx Maths Works

The screenshot shows the Sparx Homework interface. At the top left, the Sparx logo and the word "Homework" are displayed. On the right side of the top bar, it shows "0 XP", a user profile icon for "Demo Student9298", and a "MENU" button. The left sidebar contains five categories: "Compulsory" (2 new), "XP Boost" (2 new), "Target" (2 new), "Sparx Practice", and "Independent Learning". The main content area features a blue background with a white text box containing a warning: "You must correctly answer all these questions before we consider your homework to be complete and ready to be handed in. Your Compulsory homework contains questions around the topic(s) set by your teacher, plus a smaller number of revision questions and questions around topics that you've recently covered. The questions are tailored to your level of understanding. Homework is due in at 3pm on the day shown." Below this, there are two white cards, each with a right-pointing triangle icon, the text "Homework due Sunday 26th September 3pm", and an orange "New" button.



How Sparx Maths Works

Compulsory

- The questions in this sections must all be completed correctly

XP Boost

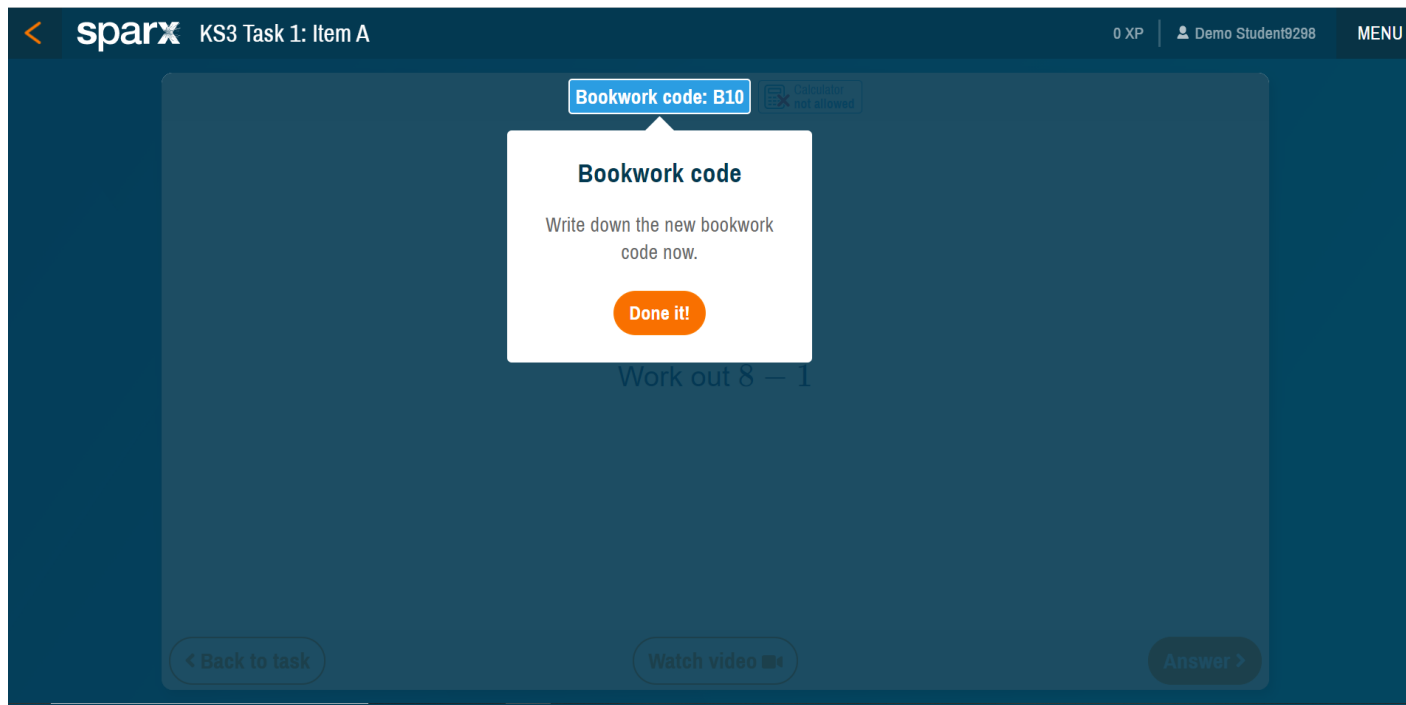
- The questions in this section are optional
- The level of challenge is similar to the compulsory section
- These questions will give students additional XP points (effort points)

Target

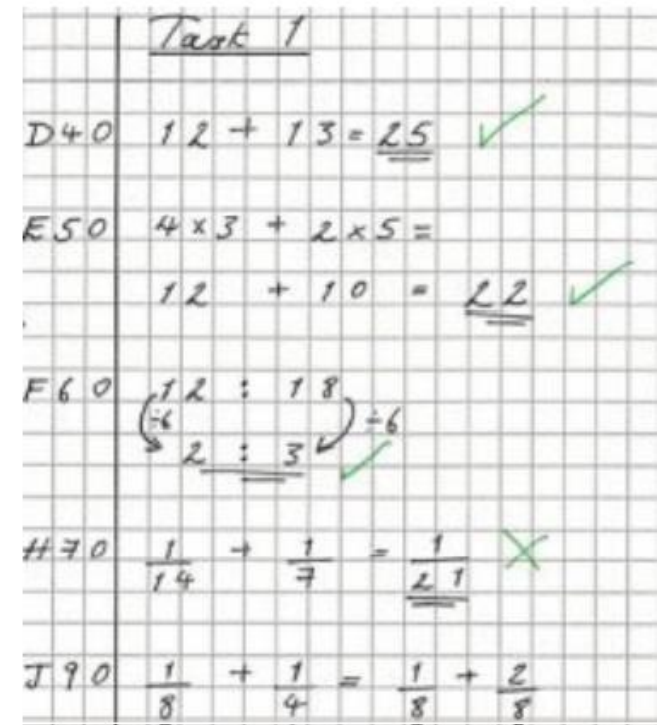
- The questions in this section are optional
- The level of challenge is higher than the compulsory section
- These questions will give students additional XP points (effort points)

How Sparx Maths Works

Bookwork codes, working out and answers must be written down.



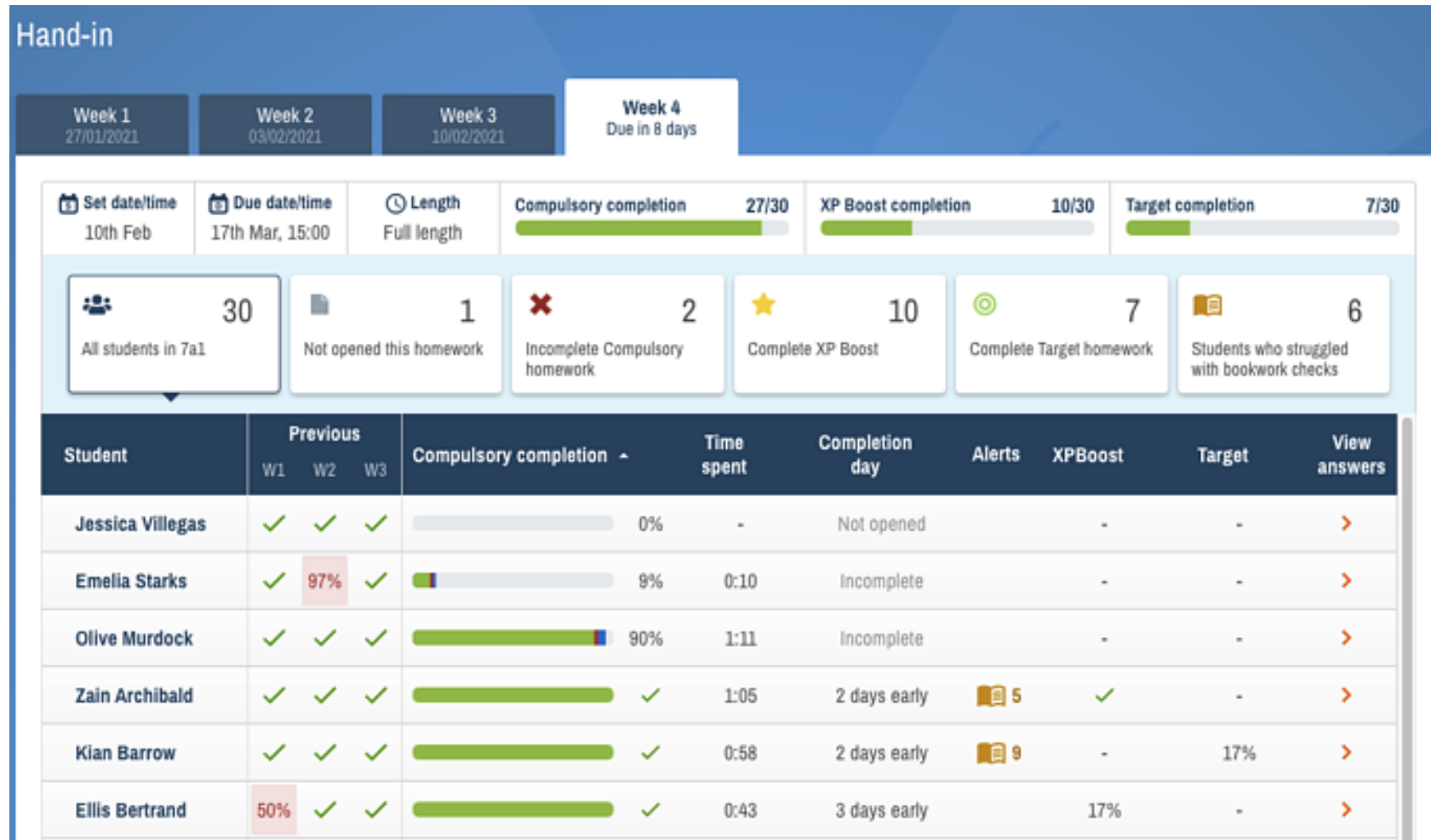
The screenshot shows the Sparx Maths interface. At the top left, it says "sparx KS3 Task 1: Item A". At the top right, it shows "0 XP", "Demo Student9298", and "MENU". A notification box in the center says "Bookwork code: B10" and "Write down the new bookwork code now." with a "Done it!" button. Below the notification, the text "Work out $8 - 1$ " is visible. At the bottom, there are buttons for "Back to task", "Watch video", and "Answer".



The image shows handwritten student work on grid paper titled "Task 1". The work includes several math problems:

- D40 $12 + 13 = \underline{25}$ ✓
- E50 $4 \times 3 + 2 \times 5 =$
 $12 + 10 = \underline{22}$ ✓
- F60 $\begin{matrix} 12 : 18 \\ \div 6 \\ \hline 2 : 3 \end{matrix}$ ✓
- H70 $\frac{1}{14} + \frac{1}{7} = \frac{1}{21}$ ✗
- J90 $\frac{1}{8} + \frac{1}{4} = \frac{1}{8} + \frac{2}{8}$

How Sparx Maths Works



Supporting Your Child

Organisation:

- Homework is set on Monday and due on Monday
- Encourage your child to start as soon as possible
- Homework takes roughly 1 hour – this does not need to be completed in one go.
- Parent email updates are sent 3 days before homework is due

Supporting Your Child

How your son should approach questions:

- Try each question independently first
- If they get the question wrong they can:
 - Review the relevant lesson on google classroom
 - Look back in their maths class book
 - Watch the support video on Sparx Maths
 - See their class teacher for help

Supporting Your Child

Sparx Maths use a sophisticated algorithm to select questions that are the appropriate level of challenge for each student. Therefore, it is very important that **you do not help them to answer questions**. If you do, the homework questions may become too challenging for them.



Contact:

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