

$$a^2 + b^2 = (a-b)(a+b)$$

$$AB = \sqrt{AB_x^2 + AB_y^2}$$

$$= mx + b$$



THE TRINITY CATHOLIC SCHOOL

MATHEMATICS KS3
INFORMATION BOOKLET

Maths teacher:

Equipment

It is ***extremely important*** that you have the correct scientific calculator, these can be purchased from most supermarkets, but you can buy them from the Maths department. The model that your child should have is the Casio fx-83GTX or Casio fx-83GTCW. This is the calculator they will need all the way through to their GCSE. If your child does not have the correct calculator, they will not be able to perform all of the mathematics needed.



It is important to have your child's name on the back of the calculator as well as on the case as lots of students will have the same calculator. The calculator case should slide over the front of the calculator when not being used to protect the screen.

Your child will also need a ruler (minimum of 15cm), protractor (360 degree) and compass for their maths lessons in addition to a pen and pencil which they will need for other lessons. We advise that students keep everything in one pencil case. These can be purchased from the Maths department.



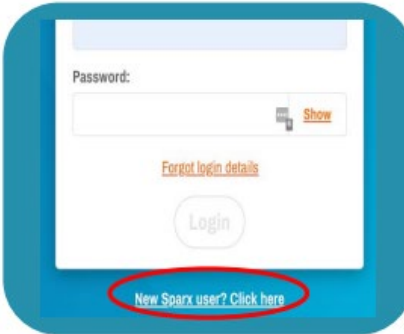
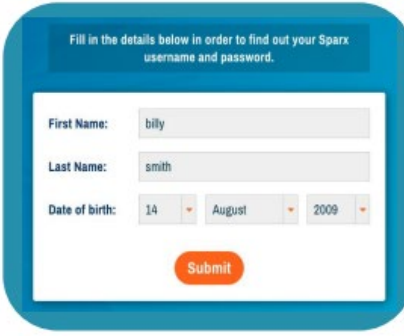
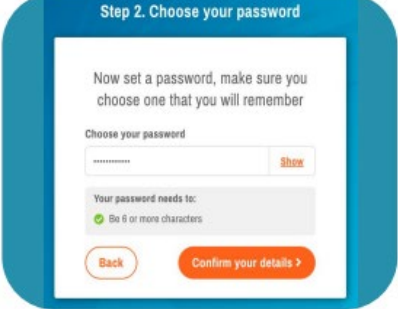
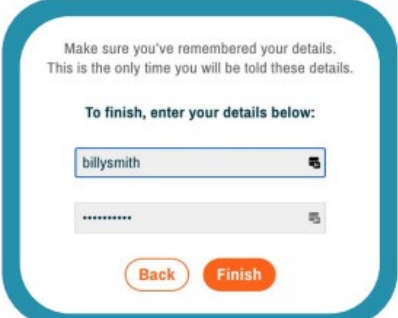
Homework

We set homework on www.sparx.com

You can use Sparx on PCs, laptops, tablets and phones. If you have any problems then your child can complete the homework at school (more information about this later).

Your Maths homework is set weekly and is due every _____

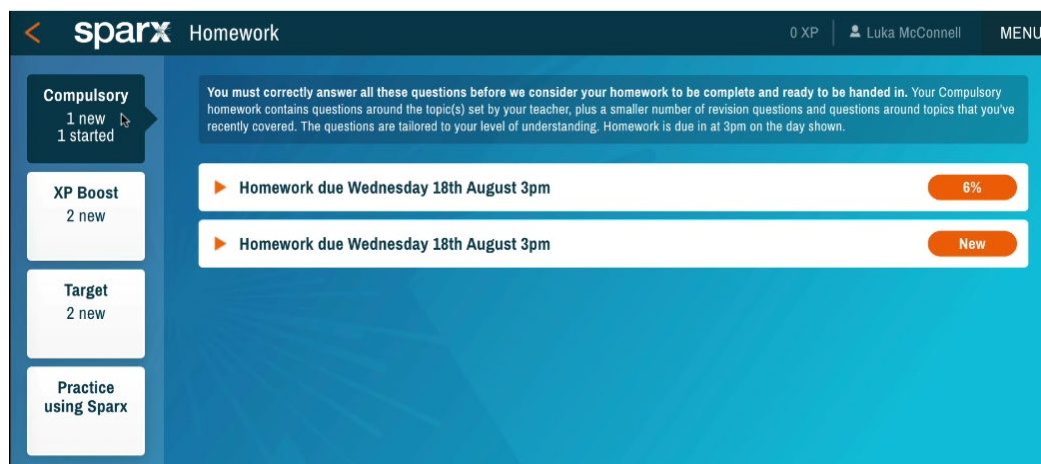
Here is a step-by-step guide to getting started:

<div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">1 Go to sparx.co.uk and click Log in</div> <div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">2 Select Student Login</div> <div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">3 Carefully select your school from the list</div> <div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">4 Select New Sparx user</div> <div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">5 Enter your:<ul style="list-style-type: none">First NameLast NameDate of Birth</div> <div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">6 Click Submit</div> <div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">7 You will be prompted to set your own password. The password must be at least 6 characters long and you will need to remember it</div> <div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">8 Confirm your username and password, and click Finish</div> <div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">9 You can now log in to Sparx using your username and password</div> <div style="background-color: #e0e0e0; padding: 10px; margin-bottom: 10px; border-radius: 5px;">10 If a password is lost, you can select the option to request a new password from your teacher</div>	<div style="border: 2px solid #0070c0; border-radius: 15px; padding: 10px; background-color: #f0f8ff; margin-bottom: 10px;"></div> <div style="border: 2px solid #0070c0; border-radius: 15px; padding: 10px; background-color: #f0f8ff; margin-bottom: 10px;"></div> <div style="border: 2px solid #0070c0; border-radius: 15px; padding: 10px; background-color: #f0f8ff; margin-bottom: 10px;"></div> <div style="border: 2px solid #0070c0; border-radius: 15px; padding: 10px; background-color: #f0f8ff;"></div>
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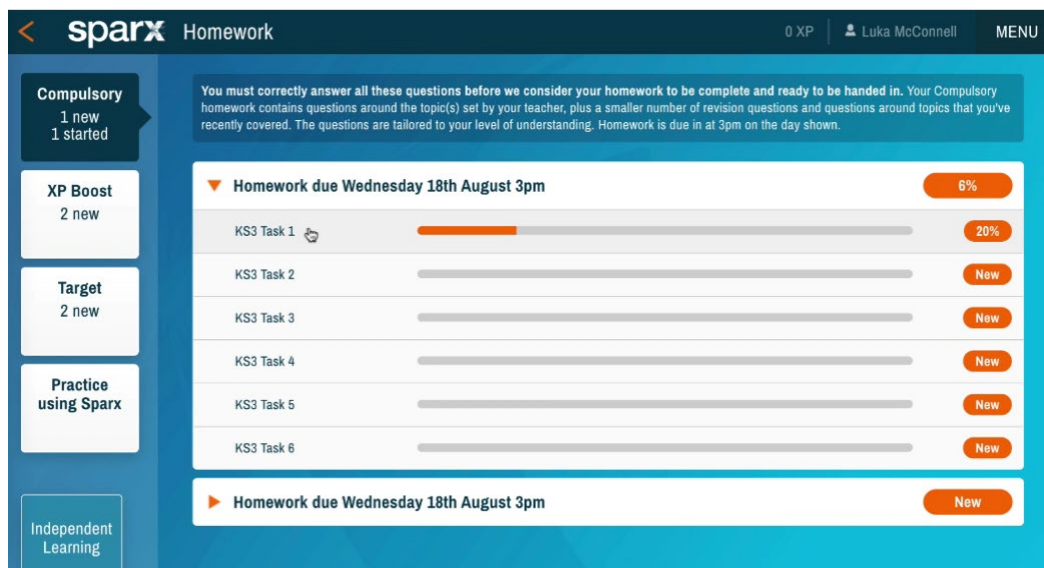
Create a password and write it in the box below as well as school planner.

A password reset can be requested via the website.

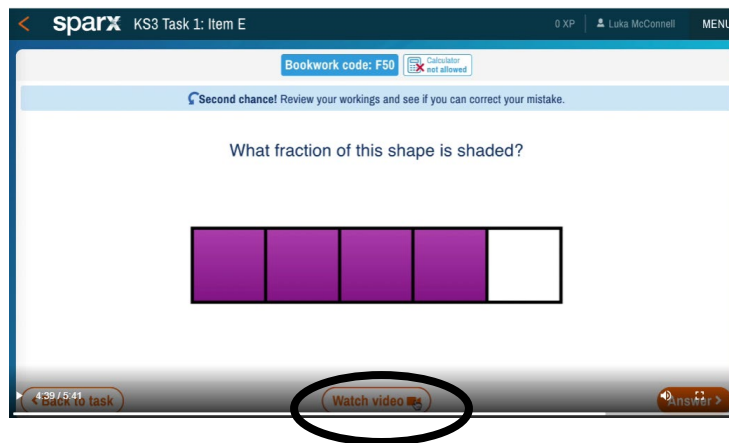
The logon screen will display homework tasks:



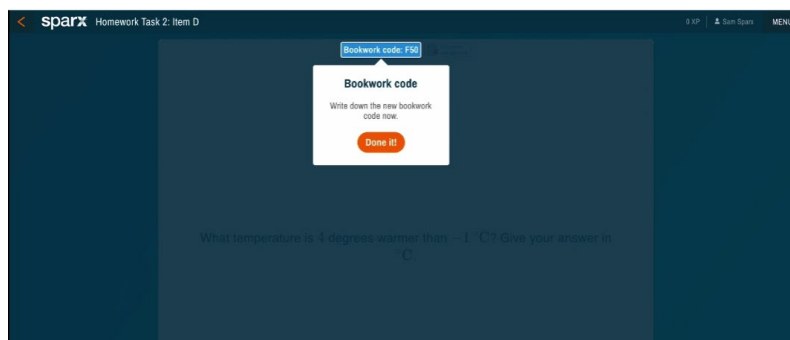
Complete the compulsory homework first. There will be several tasks which have been set at a specific level.



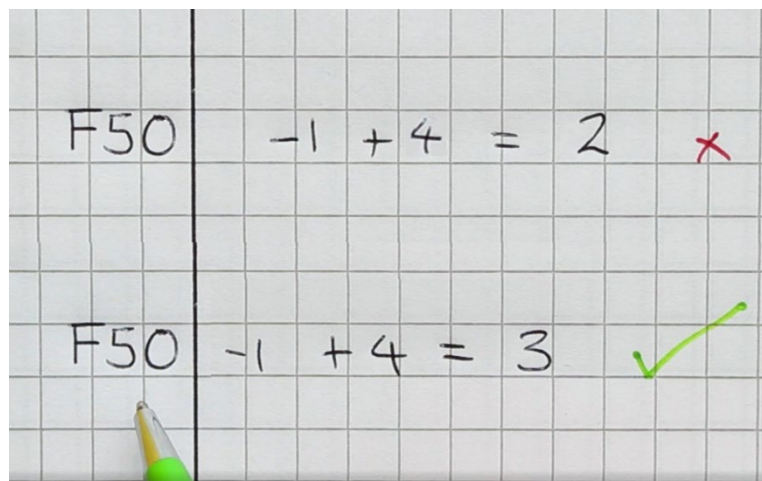
Students must achieve 100% on all tasks. Students can watch a video via a link at the bottom of the question and try again if they get a question incorrect. XP points are earned for every set of questions answers in Sparx.



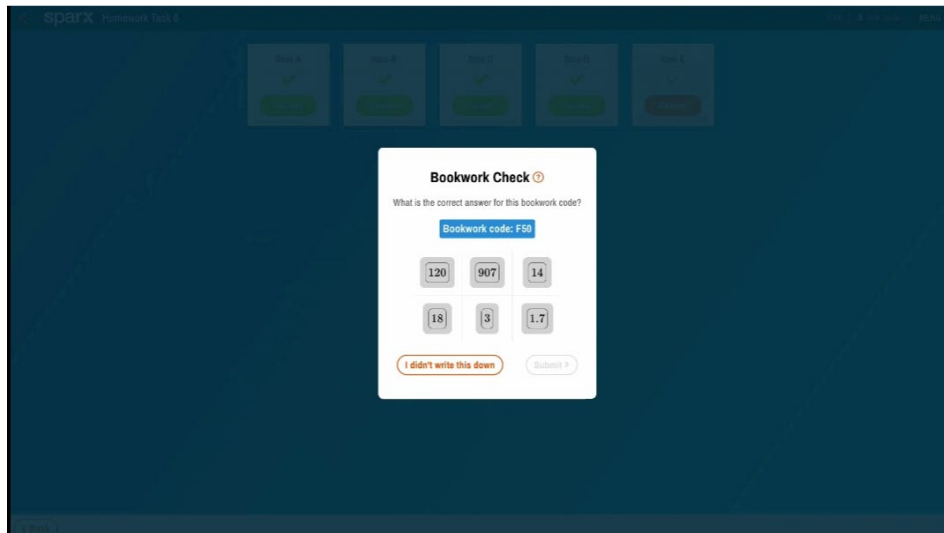
For every single question completed in Sparx students need to write down their answer and working out in a book for a bookwork check. For each question there will be a bookwork code at the top of the screen.



Students should write down the code before they start the question. If they get the answer wrong they should try it again with the same bookwork code and mark their work as they go.



Every so often, students will have a bookwork check where they need to give a code.



Teachers can see how long students spend doing the quiz and how much of the video students have watched. Teachers will also see how many times students have done the quiz, which questions they got right and wrong, which answers they put and the time spent on each one and the date and time of when they did it.

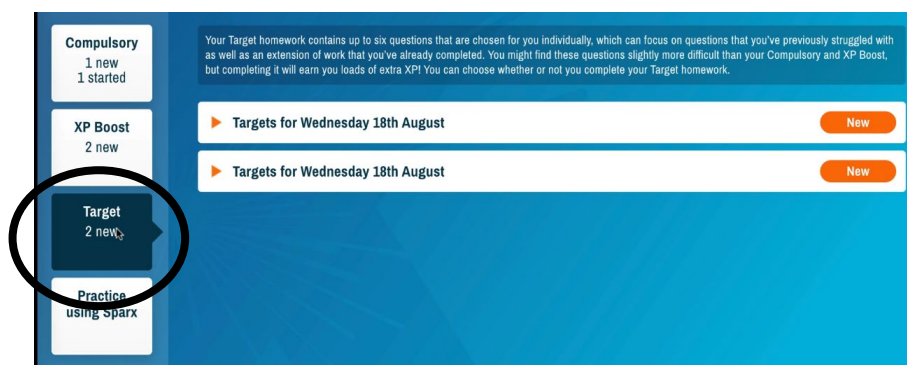
WANT TO DO EXTRA?

XP BOOST



XP Boost questions are at a similar level to the compulsory homework questions and will be rewarded with extra XP points.

TARGET

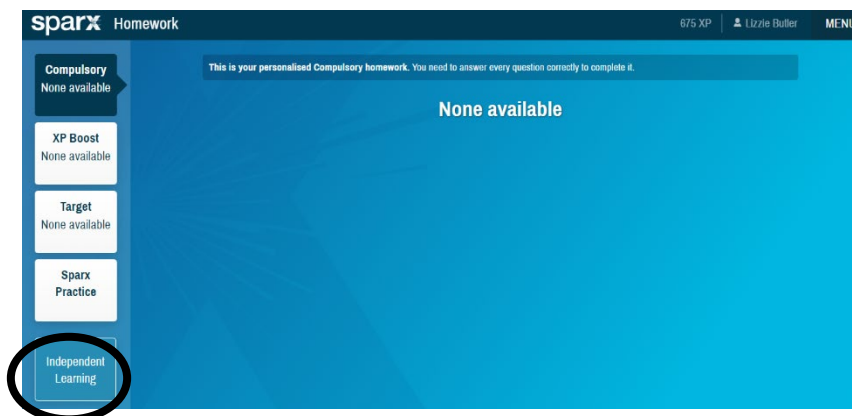


These are designed to give your child a bit of a challenge and will also earn XP points.

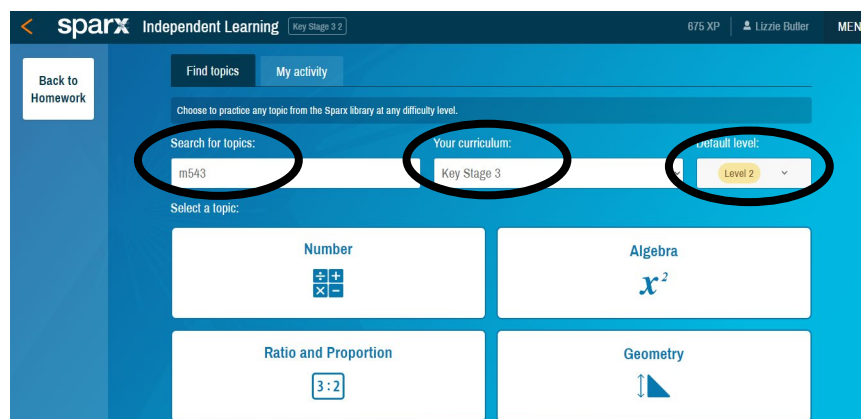
The absolute best way to learn any topic is to do a little bit very often. Do one XP Boost and Target tasks each week and you will master maths.

WANT TO SEARCH FOR A TOPIC OR SPARX CLIP NUMBER?

You can search for a topic or clip number to help you revise for your Maths assessments. Click on Independent Learning on the bottom left of the home screen.



In the 'Search for topics' type wither the topic name or Sparx code you want to revise. You must select 'Key stage 3'. Then click the level of difficulty choosing from 1 being the easiest to 4 being the most challenging.



Here are the difficulty levels:

Level 1 Practise the basics of each topic at a gentle pace.

Level 2 Practise the basics of each topic.

Level 3 Practise the basics and try some more challenging questions.

Level 4 Practise with the most challenging questions.

SUPPORT

If you are struggling with a task and have watched the video, please see a maths teacher or attend a homework support session.

MATHS CLUB

Here at Trinity we have a Maths Club that runs lunch time on Monday and Thursday from 12.30 to 1.00 in **MA8**. If your child needs help with homework or you have connection issues at home, this is a great place for them to come and get their work done on time. They could also come along with some additional work or work from lessons to get some support.

Missed Lessons

If your child missed lessons due to sickness, a school trip or music lesson, they can catch up on the work easily:

- Maths Club: your child can come and find their teacher at Maths Club to find out what they missed.
- White Rose/Sparx Maths: It may be possible to provide video links for lessons that have been missed.