



Ormiston
Horizon Academy



OHA Honours Programme.

Expanding Horizons in Maths.

Point Values		
	2	3
4	5	10

- Complete tasks from the list below and record what you have done in your learning journal.
- Collecting points allows you to earn a bronze, silver and gold maths award.

	Date Started	Date Completed	Points Earned
Take part in the OAT Maths Olympics			
Take a look at a GCSE Edexcel maths paper and see what questions you can complete and focus on the style of questions and how they are asked, how might you decipher what type of maths you need to use, discuss this with your maths tutor about what you have discovered.			
Watch the imitation game to see the real-world applications of mathematics in the real world and how this helped the allies to win World War 2.			
Watch Hidden Figures to see how the power of human computers helped to put the first American into orbit and how the introduction of computers helped with these calculations.			
Attend Maths Club, keep a note of what you discovered during club in your learning journal.			

Take part in F1 stem, keep a diary of what you have learnt in each session and how you find working in a team working in a project such as this.			
Do some revision (e.g. SPARX) on an area agreed with your maths tutor to help you with your studies and preparation for exams.			
Look at the different ways in which you can revise maths and find what method works for you. In your journal write down why you found this method the best for you.			
Following on from your research into revision, create a social media post that talks about the different methods of revising and the benefits to each one.			
Research a famous mathematician, what did they discover/ expand upon and how did their work affect maths/ the world, what impact do you think they have had. Write your findings in you learning journal.			
Take part in Lego League Club, keep a log of what you completed each session and discuss with your maths tutor.			

Organise some work experience for 2 days (or longer if you'd like) in a maths related occupation, for example accountancy or a job in technology (e.g. software engineer).			
Try your hand at 5 sudoku problems, to test you logical and mathematical thinking, find the difficulty that suits you and see how long it takes you to complete a puzzle.			
Create a mind map of all the mathematical concepts you have learnt since being at Ormiston and what are the key points you need to remember for each topic you list.			
Write in your learning journal these 7 different numbers 23, 87, 101, 135, 203, 227, 249 in 8-bit binary form, use BBC bitesize to help you understand how to write numbers in binary.			
Attend chess club and write in your learning journal why you think/ don't think chess relates to mathematics.			
Write in your learning journal how the different topics you have learnt in maths so far will help you in everyday life either now or in the future. Don't just think number what about algebra as well?			

Watch a TED talk focussing on maths of your choice and write in your learning journal which one you watched and what your takeaways from it are.			
Attend a careers fair near you and look at careers that involve maths and also the careers that interest you to see what steps you need to take to achieve that career, both in school and beyond.			