

Prepare for Year 12 Maths: Summer Work

Task A : Research

Find out about the use of the **discriminant** in solving quadratic equations

- What is it?
- Where does it appear in the quadratic formula?
- How does it help to explain how many solutions the quadratic equation has?
- How does it help to explain what the graph looks like?

Task B: Integral Maths Activities and Assessments

You should have an account set up for you
(if not, email me sharek061@presdales.herts.sch.uk)

Website: <https://integralmaths.org/>

Username is

2761T- followed by your first initial and then surname

Password is

changeme

(which you will change, so make it something you will remember)

There you will find 7 sections of work to do - lots of information via video and some interactive parts - and an Assessment for each one that you must complete.

- Integers
- Geometry
- Surds and Indices
- Coordinate geometry
- Algebraic manipulation
- Trigonometry
- Completing the square

Task C: Exam Question Booklet

We have set this so that we can see your written mathematical solutions
- please show all your working for these questions and return this on
your first maths lesson

Task D: Problem Solving

Try to complete the two-way table and bring this along to your first maths
lesson

Task E: Getting to know your new calculator!

Go through the PowerPoint to familiarise yourself with your new
calculator.

There is a lot of new A level information here - just look at the topic
areas that you already understand from GCSE