Maths at Sheringham High

Mrs Fiona Hill – Head of Mathematics

Our Ethos

At Sheringham we aim to inspire a love of Mathematics whilst equipping our students to deal with both the rigours of examinations and real life.

Our Curriculum

* We encourage students to recognise a 5 year programme of study to GCSE. Meaning that foundations they build now will underpin their understanding at GCSE and A Level
* We have included a greater element of *problem solving* and *reasoning* to reflect the changes in the GCSE curriculum.

Opportunities at Sheringham

* We compete in the UKMT Maths Challenges, previously our students have progressed through to National level – last year we received awards for over half of our junior Maths Challenge entries
* We contribute to SMSC days with financial education lessons and the opportunities to explore the maths in Norwich Castle.
* The opportunity to join STEM club

How our Students are set

* Students are initially set using their results from Key Stage 2.
* We retest students within the first three weeks of high school and refine groups as appropriate.
* Through our frequent assessment, we monitor our students' progress and we make changes to the setting on a regular basis.

MathsWatch

www.vle.mathswatch.com

* Each child has their own unique username
* Username: **school login@sheringhamhigh**
* Password:

How can I help my child?

- Encourage them to remain positive about Maths!
- Use examples from Mathswatch / Corbett maths etc
- Ask open questions e.g
  - What can you tell me that might be useful?
  - What can you work out?
  - Can you show me how you worked out a similar problem?

We hold a drop in session once a week at lunch for students to get help from us in addition to lessons. These are Tuesday in Rm 32

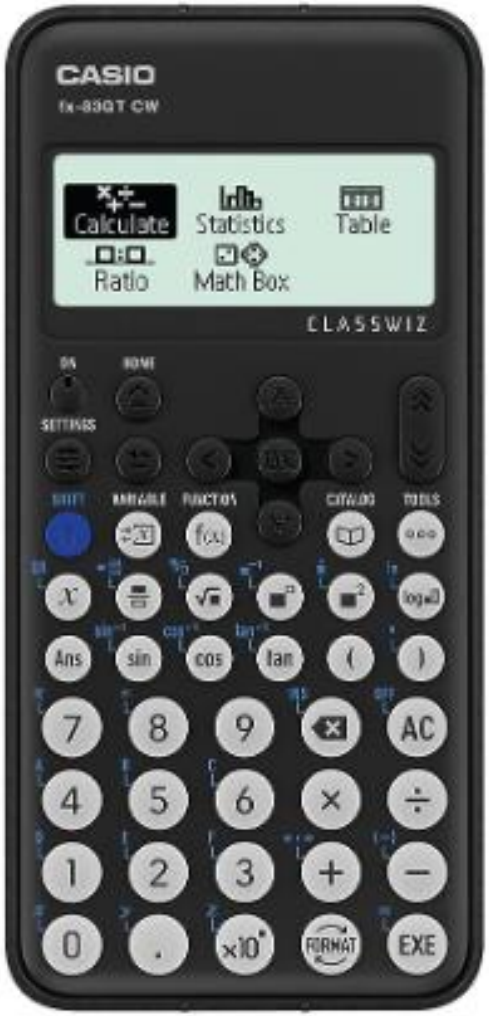
Calculations Policy

"The essence of mathematics lies in its freedom"

Georg Cantor

In mathematics, as with real-world problems, the solution is rarely only reached by a pre-prescribed method. We teach the following methods as standard, as the progression towards the algorithm (method) can be clearly mapped and understood. This policy has been written in conjunction with Sheringham and Holt Primary Schools to promote a continuity of study.

Calculators



* Calculators with a two line function are a real advantage
* Students should bring their calculator to every lesson to gain familiarity with it

FX 83GT CW is recommended.

Learning Journeys

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn Term	Sequences		Understand & Use Algebraic Notation		Equality and Equivalence		Place Value & Ordering Integers & Decimals			Fraction, Decimal & Percentage Equivalence		
Spring Term	Problem Solving		Fractions & Percentages of Amounts	Operations & Equations with Directed Number		Addition & Subtraction of Fractions			Sets & Probability			
Summer Term	Constructing, Measuring & Using Geometric Notation			Geometric Reasoning			Developing Number Sense		Prime Numbers & Proof			

Enjoy Maths!

Mathematics, rightly viewed, possesses not only truth, but supreme beauty -- a beauty cold and austere, like that of sculpture, without appeal to any part of our weaker nature, without the gorgeous trappings of painting or music, yet sublimely pure, and capable of a stern perfection such as only the greatest art can show.

* Bertrand Russell (1872-1970), *The Study of Mathematics*