

SOUTHEND HIGH SCHOOL FOR BOYS

ACADEMY GRAMMAR SCHOOL

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Headteacher: Mrs R V Worth



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Dear Parents/Carers,

As part of our commitment to supporting students in their A level Mathematics studies, we are pleased to offer the opportunity to purchase a new model of calculator, the **Casio fx-CG100**. Many students have purchased one of these already – we are setting up a second order as many students expressed regret at not being able to purchase one the first time around.

This advanced calculator provides a range of powerful functions, including graphing, statistics, and symbolic algebra, which will be particularly valuable for students as they prepare for their examinations. While the recommended retail price is **£125**, we are able to obtain the calculator at a **discounted cost of £76** through our school supplier, Oxford Educational Supplies.

Many students currently own the **Casio FX-991EX ClassWiz**, which is an excellent scientific calculator and perfectly sufficient for GCSE and A level Mathematics. However, the **CG100 offers significant advantages:**

- **Graphing capability:** students can plot functions, parametric graphs, and inequalities directly on the screen, making it easier to visualise mathematical ideas.
- **Dynamic exploration:** features such as zoom, trace, and interactive sliders allow students to explore “what if” scenarios and develop a deeper understanding.
- **Advanced algebra tools:** the calculator can perform symbolic manipulation (e.g. expanding, factorising, simplifying, and solving equations) — tasks not possible on the FX-991EX.
- **Statistics and probability:** the CG100 handles larger datasets, displays results visually (box plots, histograms, regression graphs), and allows students to analyse data more effectively.

Although this calculator is not compulsory, we strongly recommend it for A level Mathematics students, as it can significantly enhance their ability to explore and understand mathematical concepts in greater depth.

If you would like to take advantage of this offer, please make payment of **£76** via **Wise** by **Wednesday 26 November**. Once orders are received, calculators will be ordered and then distributed to students directly in their Mathematics lessons.

If you have any questions, please do not hesitate to contact me.

Yours sincerely,

Mr M S Dowding
Leader of Mathematics

