

## Maths

Our curriculum is founded on the following principles:

- Creating opportunities with a focus on **leadership** skills enables students to develop their **self-awareness, resilience** and **independence**.
- Recognising **diversity** and encouraging **empowerment** strengthens our **community**.
- Broadening curriculum opportunities through **enrichment** allows **confident, inquisitive** and **creative** learners to become **critical thinkers**.

Creating opportunities with a focus on <b>leadership</b> skills enables students to develop their <b>self-awareness, resilience</b> and <b>independence</b> .	Leadership	Self-awareness	Resilience	Independence
	. Students leading starters . Explaining tasks and reasoning to class . Students take responsibility for their own learning	. www/ebi after each assessment . QLA after autumn, spring and summer assessments . All students aware of target grade and current working level	. Green pen improvement . Student response after every assessment . Explaining tasks and reasoning in working and in discussion	. Opportunities for independent working in class and at home . Strengthen and extension tasks available for independent study
Recognising <b>diversity</b> and encouraging <b>empowerment</b> strengthens our <b>community</b> .	Diversity		Empowerment	Community
	. Use of a variety of names/references from different cultures/backgrounds in tasks . Referencing history of mathematics and its roots in different parts of the world when teaching. . Using resources from different cultures where possible		. Students responsible for own learning. . Emphasising practical applications of mathematics and its use in different employment environments	. Opportunities to work together in groups/pairs  . Opportunities to work with the University of Kent on community programmes and guest speakers. Visits from Ambassadors to further support student progress and raise awareness of further education within the community

Broadening curriculum opportunities through <b>enrichment</b> allows <b>confident, inquisitive</b> and <b>creative</b> learners to become <b>critical thinkers</b> .	Enrichment	Confident	Inquisitive	Creative	Critical thinkers
	<ul style="list-style-type: none"> <li>. Strengthen and extension tasks available for every unit of work</li> <li>. GCSE Statistics offered in Y11</li> <li>. GCSE Further Maths offered in Y10</li> </ul>	<ul style="list-style-type: none"> <li>. Starter questions revisit topics regularly to revise as part of retrieval practice</li> <li>. Students practice key skills regularly to boost fluency and confidence</li> <li>. Support sessions before/after school</li> </ul>	<ul style="list-style-type: none"> <li>. Regular exposure to problem solving tasks</li> <li>. Students encouraged to break down and analyse tasks</li> <li>. Regular opportunities to discuss/verbalise their mathematics</li> </ul>	<ul style="list-style-type: none"> <li>. Students encouraged to consider different approaches to problems</li> </ul>	<ul style="list-style-type: none"> <li>. Students given opportunities to discuss different approaches and verbalise their reasoning as to why a particular method is preferable.</li> </ul>