

Key Stage 5 - Maths

Year	Knowledge	Skills	Alive themes	Justice and Respect
12	Calculus, Trigonometry and Applied Mathematics	Algebra manipulation Problem solving Reasoning Recall of known facts	Interdependence – use of resources online and in class (with teachers and class) to complete the proof of study Review – in lessons on tests and HW's on key skills Questioning Being able to ask real world problems questions and apply the correct mathematical procedure to solve them. Then you are able to justify the mathematics within context	Justice and respect – Key historical figures are referred where appropriate (Isaac Newton, Alan Churring etc).
13	Further Calculus, Trigonometry and Applied Mathematics	Algebra manipulation Problem solving Reasoning Recall of known facts	Interdependence – use of resources online and in class (with teachers and class) to complete the proof of study Review – in lessons on tests and HW's on key skills Questioning Being able to ask real world problems questions and apply the correct mathematical procedure to solve them. Then you are able to justify the mathematics within context	Justice and respect – Key historical figures are referred where appropriate (Isaac Newton, Alan Churring etc).

How does this prepare students for the next phase?

Key skills in problem solving with mathematics needed to progress to university level Mathematics are covered, and independent learning skills are practiced to assist them.