			Author(a)	Mat Cooper		
<b>KS3</b> Curriculum Overview		Maths	Author(s):			
			review:		A Spe	
Curriculum Intent including key skills and key concepts		Rc	ationale for	KS3 Curriculum		
<b>Overview</b> Through the first 18 months of KS3, the entire content of the KS3 Programme of Study is covered in depth.				growth mindset principles. We	Enrichme	
Topics typically last 5 or 6 weeks. All classes follow the same schemes of work with individual objectives given an equivalent GCSE grade allowing teachers to plan appropriately. Schemes also point to a range of resources including <ul> <li>Text book exercises</li> </ul>		practice, the vas	t majority of stu lected in the fe	lieving that, through purposeful dents can enjoy success in this edback we give to students and in	Problem s both rich section fo	
<ul> <li>Variation theory practice from <u>www.variationtheory.com</u></li> <li>Tasks linking to other areas of Maths from <u>www.ssdd.com</u></li> <li>Relevant rich tasks allow students to develop their reasoning and problem solving skills</li> </ul> The last half of Year 8 revisits key areas from the Programme of Study, allowing both the identification of gaps in understanding, and the extension into GCSE content.		that used to be c At the same time	overed in KS3 is , GCSE and A le	lum means that much of the work now covered at primary school. evel specifications have seen a ams now require much more	Our 2 high the UKMT been rais questions appearin	
In addition we look to develop the problem solving skills needed for GCSE by completing a number of 3- act Maths tasks. These are closed problems, but students need to decide what information they need and what techniques to use in order to solve them.				curriculum has had to change	Our top Y Parallel w the world	
Assessments are built into this scheme and are cumulative in nature, covering the material covered in that school year to data. Skills have all been levelled using GCSE grades.		of mastery, with s	tudents being e	nd 8 is based around the principles encouraged to develop fluency also looking to develop resilience,	Students program	
Basic calculation skills are practiced regularly. As a transition project, students record their preferred methods of calculation at the end of Year 6 in the exercise book they use in Year 7. Weekly starters reinforce this. Students are encouraged to continue using the techniques they learnt at primary school.		reasoning and pr	oblem solving s nged with rich	kills. Pupils who grasp concepts sophisticated problems rather than	In 2018/19 delivering 10.	
We have modified our algebra and handling data content to better support our colleagues in Science and Geography. To support Science, we teach a module on rearranging formulae in both Year 7 and Year 8. To support Geography, we make sure that appropriate skills are taught at the right time, and that the terminology we use is common.			•	nterventions and Support Arrangements		
Year 7 In this year, students study Decimals and Place Value, Fractions, Measurement, Percentages, Algebra and Handling Data in depth. In addition they complete a module on Rearranging formulae and a Data Handling project.		specialist TA emp works in classes w Autumn half term	loyed to delive ith our lowest c she identifies s	me in Years 7, 8 and 9 and have a r it. At the start of each year she achieving students. Towards tudents in need of additional ior attainment data, and on her		
Year 8 Students continue the KS3 Programme of Study, covering Probability, Ratio and Proportion, Algebra, Integers and Indices and Angles and Shapes. They then go on it revisit and extend the Measurement, Percentages, Algebra and Data Handling covered in Year 7, along with completing more rearranging formulae practice.		observation of the roughly 4 weeks. current topic from practice. Studen	em in class. The In these groups In the scheme c ts are pre and p	ey are extracted for a period of s, students do a mixture of both the f work and intensive numeracy post-tested and the data is used to nal lessons or stay in the		
Year 9 Because of the increased demands of GCSE, we start our GCSE scheme in Year 9. This allows us to complete the syllabus by January in Year 11 and move to diagnostic revision using the Pinpoint learning platform. See the KS4 document for more details.		year. This data di	riven approach	is then repeated throughout the has enabled us to support our repare them for GCSE.		
Links to Key Stage 4 and 5					Attache	
The importance of developing the problem solving skills required for GCSE, alongside fluency, r	resil	ience and reasoni	ng is writ large	in our KS3 schemes of work.	Docume	
When developing the KS3 scheme of work we were conscious that it is more important to challenge students with rich, sophisticated problems rather than accelerating into GCSE work. However, some opportunities to go beyond the KS3 scheme of work are taken. For example, higher achieving Year 7 students could cover basic Trigonometry as part of their work on Measurement.					Departn Exam Re Curriculu	
We are keen that suitable KS3 students aspire to continue their study of Maths into KS5. The de students are used to seeing them around the department. Some KS5 students have also acted					7-13	

## ent Opportunities

solving is embedded in our scheme of work, using tasks and 3 act Maths tasks. See the Curriculum Intent or details.

ghest achieving groups in each year are entered into T Maths challenge. The profile of this competition has sed in recent years due to the similarity between its s and the problem solving questions that are now ng at GCSE.

Year 7 and 8 students have also used the Simon Singh vebsite to expose them to the relevance of Maths in d at large.

use Numeracy Ninja resources in the Year 7 tutorial nme, and we plan to extend this into Year 8.

19 we ran a Maths day, with a visiting presenter g a practical seminar to students in Years 7, 8, 9 and

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ent	Tick if present
ment Improvement Plan	
eview	
um and Progression Map for Year	