Maths Scheme of Work Overview



Scheme of work sequence/flow

At Dene Magna, in Maths we follow a balanced scheme of work that is reviewed each year. The KS3 scheme of work builds steadily on previous KS2 knowledge and exposes students to a wide variety of fundamental concepts beyond basic numeracy. The flow (particularly in year 7) mixes new concepts with some recapping of KS2 skills in order to build confidence and ensure all students have a good knowledge foundation irrespective of their primary school experience. The KS3 content is also designed to allow time and flexibility for plenty of discovery activities and fun, whether pancake day maths, Black Friday themed learning, competitions and quizzes. Please have a look at our 'Intent' document for more information.

In year 7, students are taught largely in mixed ability groups (in order for middle attainers to be encouraged upwards in their ability), with only a few slower-paced learners being allocated to a 'progress' group where learners will follow a simplified stage 6 SOW which recaps more KS2 content. In year 8, all students are put into groups according to their speed of learning and all students flow onto the next stage of the scheme of work. In year 9 where we start to deliver GCSE content, students will still be in groups according to their ability and learning speed, but will follow either a Higher paper curriculum, a Foundation paper curriculum or a 'crossover' where classes are exposed to some Higher content to see how they respond and so the right decision can be made in year 10. In year 11, teachers finish the Higher or Foundation curriculums as started in year 9/10 and generally finish teaching before Christmas, with teachers actively identifying weak knowledge areas of the class, and teaching to fill gaps. From year 9 onwards students mark the transition to GCSE studies with a move away from books to categorised folders which will form a comprehensive revision resource in time.

		Speed related groups	Speed related groups	Speed related groups	Speed related groups
Year	7	8	9	10	11
Group 1	Mixed ability (Stage 7 SOW)	Stage 8 SOW	Higher	Higher	Higher
Group 2					
Group 3			Crossover		
Group 4					
Group 5					
Group 6	Progress (Stage 6 SOW)	Stage 7 SOW	Foundation	Foundation	Foundation
Group 7					

In KS3, we generally change teachers at the end of each year (to expose them to a variety of teachers and teaching styles), but we do try to keep the teacher consistent during KS4 so that teachers get to know students and their families well in order for them to be most successful during GCSE assessments.

Irrespective of the speed of learning of a group, assessments are carried out after teaching a few topics so that student progress can be monitored alongside homework scores and any group changes made. Teachers track their delivered topics in a live SOW document so that overall progress can be monitored. We also teach with a 'mastery' approach so teachers can teach for depth as time allows. The SOW is paced such that faster groups do have extra time to be stretched and to deepen their understanding.

For students that choose to study one of our 3 KS5 Maths offerings at our sixth form, our strategy is once again to follow a clear sequence of topics, but we try to minimise the number of teachers at any one time. Further Maths students are currently taught by one member of staff, and A level students are taught by different teachers for pure versus mechanics or statistics. We find that this modular approach reduces the number of teachers at any time, and builds momentum/pace in learning. We currently have two A level Maths classes (both around 12 in size) but these are not grouped by ability, only by timetable logistics to match their other A level choices.



























