



Scheme of Learning	Maths Y7 Spring Term Data & Shape and Space			
Learning outcomes	By the end of the Spring Term, you should have knowledge and understanding of sequences, working with data to find measures of average, working with angles within parallel lines, working with isometric drawings, plans and elevations.			
Knowledge	Key concepts and skills Understanding special sequences Finding measures of average Understanding angles associated with parallel lines Isometric drawings Plans and Elevations Continue from KS3 overview Contents		Key terminology Mean Median Mode Range Alternate angles Corresponding angles Co-interior angles Opposite angles Angles on a straight line Angles around a point Isometric drawings Plan Front and side elevations	
Ongoing Assessment	In Maths, the most important assessment takes place in every lesson where teachers observe and support whilst they are practicing applying knowledge and new skills. This assessment enables teachers to tailor their lessons to their class. At a point when teachers know that students are ready, a class will have a skills check in a lesson. These checks are low stakes and help to inform both teachers and students of each individuals next steps. Students are not given warning of these skills checks so that teachers can determine how regularly students are engaging in maths, rather than measure how much work a student has been able to do to prepare for a test. Support for revision: On SharePoint in the ‘Topic Information’ folder are overview sheets for each topic. Students can download these sheets from here Good ways to revise for the end of unit include: • Review their notes • Use / Review materials from SharePoint			



	Boost, Target and Independent learning tasks from SparxMaths.					
Key Assessment	At the end of the Spring term students will have a large, announced assessment which covers the key concepts covered to date. The aim of this assessment is for student to develop revision skills. The most valuable part of this assessment is the feedback that students get. The question analysis sheets direct students to additional support using Sparx Codes that link to specific topics and content. Students will identify these areas for support through the feedback lesson set aside for assessment feedback					
Clear sequencing of content	<table><tr><td>Data</td><td>Finding averages of data (mean, median and mode) Measure of spreads (Range)</td></tr><tr><td>Geometric measures</td><td>Recognise parallel lines and perpendicular lines Angles in triangles and quadrilaterals Angles associated with parallel lines Solving geometric problems in context Isometric drawings Plans and side elevations Formulae for areas of Triangles and parallelogram Areas of compound shapes</td></tr></table>		Data	Finding averages of data (mean, median and mode) Measure of spreads (Range)	Geometric measures	Recognise parallel lines and perpendicular lines Angles in triangles and quadrilaterals Angles associated with parallel lines Solving geometric problems in context Isometric drawings Plans and side elevations Formulae for areas of Triangles and parallelogram Areas of compound shapes
Data	Finding averages of data (mean, median and mode) Measure of spreads (Range)					
Geometric measures	Recognise parallel lines and perpendicular lines Angles in triangles and quadrilaterals Angles associated with parallel lines Solving geometric problems in context Isometric drawings Plans and side elevations Formulae for areas of Triangles and parallelogram Areas of compound shapes					
Links to Careers	The overarching skills achieved within Mathematics are integral to numeracy in any career. If students choose to progress from GCSE into A-Level maths, they will begin to see how different types of mathematical application may feed into careers, for example, statistical analysis of data, mechanics and engineering.					
Diversity and Inclusion	Year 7 students are introduced to female mathematicians via their assessments and can learn about their achievements.					
Support	SharePoint pages (text based, images and videos) Key Terminology Sheet					
Challenge	Sparx – independent learning challenge sections guide to ‘codes’. Mathematical thinking lessons to broaden problem solving approaches.					