Sc	heme of Learning: Year 9 Spring Term			
Topic Sequence: Reasoning with Numbers				
	6	1		8
	Numbers	Using Perc	entages	Maths and Money
Topic Overview:				
Building on their revision of fractions in the last block, students relate these to fractions and decimals, extending their learning in Year 8. All students will look at 'reverse' percentage problems with higher attainers stretched by looking at repeated percentage change. Both calculator and non-calculator methods are encouraged, with the use of decimal multipliers again key.				
Lesson Sequence:				
Use the equivalence of fractions, decimals and percentages (R)  Students will review the fraction, decimal and percentage conversions that they know and use these to derive new ones. They will then revise the formal methods of conversion through multiplication and division by 100 and simplifying fractions.  Calculate percentage increase and decrease (R)  Students will review the multiplier method used for percentage increase and decrease.  Express a change as a percentage (R)  Students will revise writing one number as a percentage of another. They will then calculate the percentage increase and decrease.  Solve 'reverse' percentage problems  Students will solve problems where they need to find the original amount when given the final amount and the percentage increase/decrease. They will look at solving problems with and without a calculator.  Recognise and solve percentage problems (non-calculator)  Students will develop their reasoning skills by recognising the type of problem and selecting the correct approach. They will start with simple numbers first advancing to those that require more complex working with division and/or fractions.  Recognise and solve percentage problems (calculator) (R)  Students will now tackle problems with greater arithmetic demand. The focus remains on recognising whether they need to find an increase, a decrease, an original value or to express a quantity as a percentage.  Solve problems with repeated percentage change (H)  Students will explore the effect of repeated percentage change.				
Sequence of Lessons:			Topic Resources	
1	Use the equivalence of fractions, decimals and p	percentages (R)	Knowledge Maps	
2	Calculate percentage increase and decrease (R)		Assessment:	End of Tonic tort
3	Express a change as a percentage (R)		Knowledge: Application of	End of Topic test
4	Solve 'reverse' percentage problems		Knowledge:	Termly mixed topic assessment
5	Recognise and solve percentage problems (non-	calculator)	Supportive Reading:	
6	Recognise and solve percentage problems (calcu	ulator) (R)		Sparx Maths: www.sparxmaths.co.uk Corbettmaths: www.corbettmaths.com AQA Revision Guide
7	Solve problems with repeated percentage chang	ge (H)		A CONSTRUCTION OF THE PROPERTY