

KESTEVEN AND SLEAFORD HIGH SCHOOL

Mathematics Scheme of Learning

Year 11 – Term 3

Intent – Rationale

“Maths is for everyone”. AQA GCSE Mathematics is designed to be diverse, engaging and essential to equip all students with the skills and knowledge to reach their future destination. Opportunities to make connections, generalise and apply are embedded where appropriate for each individual student. References to careers and future learning and shared with students.

Sequencing – what prior learning does this topic build upon?	Sequencing – what subsequent learning does this topic feed into?
<ul style="list-style-type: none"> Year 10 Term 2 Collecting and Representing Data 	<ul style="list-style-type: none">
What are the links with other subjects in the curriculum?	What are the links to SMSC, British Values and Careers?
<ul style="list-style-type: none"> 	GB4efghi
What are the opportunities for developing literacy skills and developing learner confidence and enjoyment in reading?	What are the opportunities for developing mathematical skills?
<ul style="list-style-type: none"> ‘Alex’s Adventure in Numberland’ - Alex Bellows ‘The Math Book’ - Clifford Pickover 	<ul style="list-style-type: none"> Apply knowledge of finding gradient of linear relationships to approximate gradient of a curved line

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Intent – Concepts

What knowledge will students gain and what skills will they develop as a consequence of this topic?	
<p><u>Know</u></p> <p><u>Apply</u></p> <p><u>Extend</u></p>	
What subject specific language will be used and developed in this topic?	What opportunities are available for assessing the progress of students?
<ul style="list-style-type: none">•	<ul style="list-style-type: none">• End of topic homework tests• Exam question practice – open book• Mini quizzes including Kahoot • Recall starters:<ul style="list-style-type: none">• LLLWLTLY• Corbett 5 a day• Whiterose maths KS4 problem of the day• Mini quiz on last term topics•

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Collecting and Representing data	R	A	G
Interpret and construct frequency tables and bar charts			
Interpret and construct pie charts			
Interpret and construct pictograms			
Construct and interpret cumulative frequency diagrams			
Compare distributions (median and range)			

Reading Scales	R	A	G
Use standard units of mass and length			
Use standard units of time, including converting between hours, minutes and seconds			
Use standard units of money, giving answers to 2dp			
Interpret scales in metric and imperial units			
Solve in context problems			