

## Year 9 Foundation Scheme of Learning

	Week	Topic	Notes	
Term 1	1	Decimals and accuracy (1)	Multiplying and dividing decimals. Rounding (decimal places and significant figures). Estimation and error	
	2	Decimals and accuracy (2)	Multiplying and dividing decimals. Rounding (decimal places and significant figures). Estimation and error	
	3	Indices	Inc. negative and fractional indices	
	4	Standard form	Writing and calculating in standard form	
	5	Surds	Inc. expanding brackets with surds	
	6	<b>Revision, exam, review</b>		
	7	Algebraic techniques	Expanding single and double brackets. Solving 2 & 3 step equations (inc. unknown on both sides)	
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	<b>HALF TERM</b>			
	9	Rearranging formulae	Inc. where the subject is in more than one term	
	10	Sequences	Generating sequences and nth term of linear sequences. Include Fibonacci	
	11	Quadratics (1)	Recap expanding and factorising (inc. DOTS). Solve by factorising	
	12	Quadratics (2)	Recap expanding and factorising (inc. DOTS). Solve by factorising	
	13	Percentages (1)	Percentages of amounts (with/without a calculator) inc. percentage increase/decrease with multipliers	
	14	Percentages (2)	Percentages of amounts (with/without a calculator) inc. percentage increase/decrease with multipliers	
15	Probability and Tree diagrams (1)	Inc. frequency trees. Cover both independent and dependent events		
<b>CHRISTMAS</b>				
Term 2	16	Probability and Tree diagrams (2)	Inc. frequency trees. Cover both independent and dependent events	
	17	Pythagoras and SOHCAHTOA (1)	Recap Pythagoras and SOHCAHTOA. Extend to problem solving questions	
	18	Pythagoras and SOHCAHTOA (2)	Recap Pythagoras and SOHCAHTOA. Extend to problem solving questions	
	19	Circles	Circumference and area of circles. Extend to arc length/sector and compound shapes	
	20	<b>Revision, exam, review</b>		
	21	Linear graphs	Drawing linear graphs and use of $y = mx + c$ . Inc. calculating midpoints	
	<b>HALF TERM</b>			
	22	Simultaneous equations	Extend to equations 3 & 4, extend to forming simultaneous equations	
	23	Kinematics (1)	Distance-time graphs and velocity-time graphs. Use them to find speed and distance	
	24	Kinematics (2)	Distance-time graphs and velocity-time graphs. Use them to find speed and distance	
	25	Fractions (1)	Order fractions. Find fractions of amounts. Convert between improper and mixed numbers.	
	26	Fractions (2)	Use the Four Rules with Fractions	
	27	Similar shapes (1)	Finding missing side lengths.	
28	Similar shapes (2)	Finding missing side lengths.		
<b>EASTER</b>				
Term 3	29	Proportionality	Both direct and inverse proportion, inc. worded questions	
	30	Trigonometry	Recap SOHCAHTOA, then move on to sine and cosine rules if appropriate	
	31	<b>Revision, exam, review</b>		
	32	Averages	Recap mean, median, mode and range. Inc. frequency tables and grouped data	
	<b>HALF TERM</b>			
	33	Set theory	Recap terminology from year 7. Draw and interpret Venn diagrams and use to find probabilities	
	34	Interpret box plots and quartiles	Draw and interpret box plots. Compare data sets	
	35	Vectors	Adding/subtracting/multiplying vectors. Path journeys, terminology, aiming for parallel proof	
	36	Quadratic graphs	Recap solving quadratics. Plot quadratics and solve simultaneous equations graphically	
	37	Review	Go over prior learning and use time to develop problem solving techniques	
	38	<b>Enrichment Week</b>		
39	Review	Display work/problem solving activities		