## Year 9 Weekly Topic Overview

Week	Topic	Assessment & LL's
1	F:	
	Squares, roots and cubes	
	Divisibility tests and prime numbers	
	Factors, Multiples, Primes, HCF, LCM and using Venn Diagrams	
	H: Factors, Multiples, Primes, HCF, LCM and using Venn Diagrams Nth term formulae – linear and quadratic	
2	F:	
	Sequences – finding and using nth term rules Rules of indices	
	H: Using and finding N <sup>th</sup> term formulae (linear and quadratic) Rules of indices	
3	Direct & Indirect Proportion (set 1 only).	Mixed Homework sheet 2 –
3	Averages from a list and table	Learning Landmark 1
	Stem and leaf diagrams	Learning Landmark 1
	Compare using averages	
	H:	Mixed Homework sheet 2 –
	Scatter graphs	Learning Landmark 1
	Averages from a list and table	
4	F:	
	Two- way tables Pie charts	
	Scatter graphs and correlation	
	H:	
	Stem and Leaf diagrams	
	Compare using averages	
	Cumulative Frequency	
5	F:	Test 1 Learning Landmark 2
	Revision, assessment & response	
	Percentage of amounts (non-calc)	Toot 1 Loarning Landmark 2
	H: Revision, assessment & response	Test 1 Learning Landmark 2
6	F:	
	Scatter graphs and correlation	
	Simplifying fractions and fractions of amounts	
	Converting between mixed numbers and improper fractions, multiplying, dividing, adding and	
	subtracting fractions	
	H:	
	Box plots Recap lesson of averages, cumulative frequency and box plot	
	Problem solving	
	Mixed number – improper fraction with adding and subtracting fractions	
7	F:	
	Decimal multipliers including increase and decrease	
	Number as % of number, percentage change	
	Compound interest and depreciation	
	FDP conversions and ordering.	
	H: Multiplying and dividing fractions	
	Multiplying and dividing fractions Algebraic fractions	
	Percentages - non-calculator, decimal multiplier and increase/decrease using a multiplier	
	Half Term	
8	F:	Mixed Homework sheet 5 –
	Simplifying ratios and converting between a ratio and fraction	Learning Landmark 3
	Sharing in a ratio	
	Ratio when given one value or given difference	
	Problem solving	Miyod Homenwall -1
	H: Percentages – one number as a percentage of another, percentage change, reverse	Mixed Homework sheet 5 –
	percentages – one number as a percentage of another, percentage change, reverse percentages and compound percentage change	Learning Landmark 3
	Simplifying and sharing in a ratio	
9	F:	
	Simplifying expressions by collecting like terms	
	Expand single and double brackets	

	Factorising linear expressions	
	H:	
	Ratio when given one value or given difference.	
	Solve linear equations	
	Simultaneous equations	
10	F:	
	Solve simple equations, equations with unknowns on both sides and equations with brackets	
	Substitution with positive and negative numbers	
	H:	
	Simultaneous Equations	
	Inequalities	
	Change the subject of a formula	
	Problem solving	
11	F:	Test 2
	Revision, assessment & response	Learning Landmark 4
	Substitution involving negatives	
	H:	Test 2
	Revision, assessment & response	Learning Landmark 4
	Pythagoras theorem	
12	F:	
12		
	Revision, assessment & response	
	Angles -name, measure, estimate and draw angles, basic angle facts and angles in parallel lines.	
	H:	
	Pythagoras theorem and Trigonometry	
	Review angle facts and angles in parallel lines	
12	F:	+
13		
	Angles in polygons investigation	
	Regular polygons and calculating missing angles	
	Compass constructions	
	H:	
	Angles in polygons	
	Compass constructions	
14	F:	
	Problem solving	
	Getting to know your calculator	
	H:	
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	Loci Similar triangles	
	Similar triangles	
	Similar triangles  Christmas	
15	Similar triangles  Christmas  F:	Spring Mixed Homework
15	Similar triangles  Christmas	Spring Mixed Homework sheet 1 – Learning Landmark 5
15	Similar triangles  Christmas  F:	-
15	Similar triangles  Christmas  F:  Rounding to decimal places, sig fig and estimation	sheet 1 – Learning Landmark 5
15	Similar triangles  Christmas  F: Rounding to decimal places, sig fig and estimation Metric and imperial conversions  H:	sheet 1 – Learning Landmark 5  Spring Mixed Homework
15	Similar triangles  Christmas  F: Rounding to decimal places, sig fig and estimation Metric and imperial conversions  H: Four operations with negative numbers & substitution into a formula	sheet 1 – Learning Landmark 5
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	Sector area and arc length	
	Volume of a prism	
	Volume of a cone, pyramid and sphere (set 1&2)	
20	F:	
	Exploring graphs on a computer	
	Basic probability, not happening, sum to 1. Sample space diagrams	
	Relative frequency and expected outcomes	
	H:	
	Surface area, Mass Density Volume, Speed Distance Time. Problem solving	
	Half Term	
21	F:	
	Completing Venn diagrams and calculating probabilities	
	Transformations -translations, reflections and rotations	
	H:	
	Straight line graphs – plotting, exploring, gradients and finding equations of lines when given a	
	line or points.	
22	F:	
	Enlargements, including finding the centre of enlargement	
	Describing as single transformation	
	Recap of expanding and simplifying  H:	
	Y= mx+c and rearranging equations into the form y=mx+c	
	Mutually exclusive and independent events – addition and multiplication rules	
	Probability tree diagrams and using tree diagrams to find probabilities	
23	Revision, assessment & response	Year 9 spring exams - P2
	<b>F:</b> Recap linear factorising then start factorising quadratics when a = 1	Non-calculator - Learning
	H: Venn diagrams, set notation and probabilities	Landmark 7
24	F:	
	Recap of averages and ungrouped table and comparisons.	
	Estimated mean	
	Drawing bar graphs for discrete and continuous	
	Dual and compound bar charts	
	H:	
	Transformations -translations, reflections and rotations	
	Enlarge 2D shapes, given a centre of enlargement and integer or fractional scale factor, positive	
	or negative	
25	Describe the single transformation  F:	Coming Missed Homeswork
25	Recap stem and leaf diagrams.	Spring Mixed Homework sheet 15 – Learning Landmark
	Properties of 2D and 3D shapes	8
	Plans and elevations, and isometric drawings	
	Recap all things area inc. circles and compound	
	H:	Spring Mixed Homework
	Recap of expanding and factorising with single brackets.	sheet 7/8 – Learning
	Expand double brackets including squared brackets	Landmark 8
	Factorise and quadratic equations where a=1 and where a>1	
26	F:	
	Revise all things volume	
	Problem solving	
	Pythagoras	
	H:	
	Plans & elevations	
	Drawing 3D shapes on isometric paper Surface area and volume of prisms – including working backwards to find missing lengths	
	Surface area and volume of prisms – including working backwards to find missing lengths  Easter	
27	F:	
-'	Pythagoras applied questions	
	Recap powers, roots and basic rules of indices, 0 and negative indices	
	Frequency polygons	
	H:	
	Surface area and volumes of spheres, cones & pyramids – give answers in terms of $\pi$ and as a	
	decimal. Include working backwards to find missing lengths.	
28	F and H:	Year 9 Summer exams — P1
	Revision & assessment	Calculator – Learning
	Assessment response	Landmark 9
	Magic squares	
29	F:	
	Recap pie charts & line graphs	
	Calculations involving time and timetables. Speed time graphs	
	H:	
	Pythagoras and Trig – right angled triangles	

	Non right angled triangles: Sine rule, Cosine rule and Area of a triangle using ½ absinC	
30	F:	Summer Mixed Homework
30	Plotting curved graphs	sheet 17 - Learning Landmark
	Ratio recap	10
	Proportion, including best buys, and recipes	
	H:	Summer Mixed Homework
	Use trigonometry to solve problems in 2D and 3D.	sheet 2/3 - Learning Landmark
	Practical activities on Pythagoras and Trigonometry.	10
31	F:	10
31	Review of percentages including decimal multipliers, compound percentage change,	
	one number as a percentage of another, percentage change, and reverse percentages	
	H:	
	Review of all rules of indices	
	Intermediate Maths Challenge (2005)	
	Misleading graphs	
	Half Term	
32	F:	
	Review of all percentage	
	Recap solving equations	
	Forming expressions & forming and solving equations	
	H:	
	Histograms including frequency density	
	Linear graphs recap – gradient and intercept	
	Graphs of quadratic and cubic functions	
33	F and H:	Year 9 Summer exam P2 -
	Revision, assessment & response	Learning Landmark 11
	Pascals triangle	
34	F:	
	Solving simultaneous by elimination when given a match	
	Recap the four operations with fractions with a focus on mixed number	
	H:	
	Graphs of reciprocal functions	
	Graphing linear inequalities	
	Percentage increase / decrease using decimal multipliers – include finding original amount and	
	compound interest and depreciation	
35	F:	Summer Mixed Homework
	Financial literacy e.g. completing bills/statements, pay slip, VAT, mortgages and loans	sheet 7 – Learning Landmark
	Expanding and factorising review	12
	H:	Summer Mixed Homework
	Find percentage increase / decrease given original and final amounts	sheet 7 – Learning Landmark
	Use percentages in real life situations such as compound interest, VAT and income tax, profit	12
	and loss etc	
	Calculate the overall impact of a number of % changes even if the original is not stated e.g. the	
26	sides of a cube are each increased by 10%, what is the overall increase in volume / surface area.	
36	F:	
	Recap compass constructions. Loci	
	Review plans and elevations, then isometric using multilink	
	H: Event and simplify double breekets	
	Expand and simplify double brackets.	
	Factorise and quadratic equations (including the difference of two squares) when a=1 and	
	when a>1  Event the product of more than two binomials and simplify	
27	Expand the product of more than two binomials and simplify	
37	Consolidation	
	End of term activity	