## Culcheth High School Key Stage 3 Curriculum Map 2019 - 2020

Mathematics Key Stage 3 – Year 8 Sets 1-3



	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Concepts	Number and Place Value	Fractions, decimals and percentages	Scale Factors and Bearings	Algebra – Graphs Sequences	Angles, Area and Volume	Ratio and Proportion Project based learning
	Number Calculations	Probability Statistics	Algebra – Equations	Angles, area and volume	Ratio and Proportion	
Themes	Prime factorisation including LCM and HCF Rounding to significant figures Standard form  All 4 operations including negative numbers Using all elements of BIDMAS	Fractions to terminating and recurring decimals Identify the percentage multiplier Percentage change using the multiplier Reverse percentages Simple interest Probability scale Venn diagrams Frequency trees Possibility spaces Expected outcomes Grouped frequency tables Histograms Averages of grouped data Compare data using averages	Enlarge by a positive scale factor Scale diagrams including maps Plans and elevations Bearings  Simplify an expression with a combination of variables Substitute positive and negative numbers into formulae Change subject of formulae	Use of y=mx+c for linear graphs Gradient and y- intercept Sketch graphs Plot and interpret distance-time graphs Plot quadratic graphs Finding the nth term of a linear sequence Angles in parallel lines Interior and exterior angles in polygons Circles Area of compound shapes Volume of prisms Compare lengths, area and volume using ratio notation	Angles in parallel lines Interior and exterior angles in polygons Circles Area of compound shapes Volume of prisms Compare lengths, area and volume using ratio notation  Express quantities as ratios Solve ratio problems Compound measures Unit measures	Express quantities as ratios Solve ratio problems Compound measures Unit measures Project to solve a problem appropriate to this year's curriculum
Writing Whole school literacy focus	Literacy based problem solving questions	Literacy based problem solving questions	Literacy based problem solving questions	Literacy based problem solving questions	Literacy based problem solving questions	Literacy based problem solving questions

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Key Assessment	w/c 7/10	w/c 25/11	w/c 13/01	w/c 9/03	w/c 27/04	w/c 15/06
Focuses, Suggested	50 minute QMA based	50 minute QMA based	50 minute QMA based	50 minute QMA based	50 minute QMA based	50 minute QMA based
Assessments and	on all topics studied since September	on all topics studied since September				
Feedback Week						
Special Events			Pi day 14/3			