Culcheth High School Key Stage 3 Curriculum Map 2021 - 2022
Subject: Mathematics Year 9, sets 1-4
Exam Board: White Rose Maths

CULCHETH HIGH SCHOOL
THE BEST THAT WE CAN BE

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Concepts	Reasoning with Algebra	Constructing in 2 and 3 Dimensions	Reasoning with Number	Reasoning with Geometry	Reasoning with Proportion	Representations and Revision
Themes	Straight Line Graphs – Finding the gradient of a line Write an equation in the form y = mx + c Find the equation of a line from a graph Forming and Solving Equations – Solve equations with unknown on both sides Solve inequalities with unknowns on both sides Rearrange formulae Testing Conjectures – Expand a pair of binomials Conjectures with algebra Explore the 100 grid	Three Dimensional Shapes – The surface area of shapes Plans and elevations Volume of shapes Constructions – Construct an angle bisector Locus of distance from a point Construct a perpendicular bisector Congruency – Identify congruent figures Explore congruent triangles Identify congruent triangles	Numbers – Integers, real and rational numbers Solve problems with integers Solve problems with fractions Using Percentages – Solve reverse percentage problems Express a change as a percentage Recognise and solve percentage problems Maths and Money - Calculate wages and taxes Solve problems with exchange rates Solve unit pricing problems	Deduction – Angle problems with algebra Conjectures with angles Conjectures with shapes Rotations – Rotate a shape about a point on a shape Rotate a shape about a point, not on a shape Translations – Translate points and shapes by a given vector Find the result of a series of transformations Pythagoras' Theorem –	Enlargement – Enlarge a shape by a positive integer scale factor Enlarge a shape by a negative scale factor Similarity – Work out missing sides and angles in a pair of given similar shapes Solve problems with similar shapes Ratio – Solve problems involving ratio and algebra Solve ratio problems given the whole or a part Proportion – Solve problems with inverse proportion Graphs of inverse relationships Rates -	Probability – Expected outcomes Independent events Use diagrams to work out probabilities Algebraic Representation – Interpret graphs, including reciprocal and piecewise Represent inequalities Draw and interpret quadratic graphs

				Identify the hypotenuse of a right-angled triangle Explore proofs of Pythagoras' Theorem	Rates of change and their units Solve speed, distance and time problems with a calculator	
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
Spiritual, Moral, Social and Cultural theme (SMSC) Fundamental British Values	The naturally inquisitive nature of maths supports decision making, SMSC and FBV will be addressed through the use of OFQUAL approved past paper questions	The naturally inquisitive nature of maths supports decision making, SMSC and FBV will be addressed through the use of OFQUAL approved past paper questions	The naturally inquisitive nature of maths supports decision making, SMSC and FBV will be addressed through the use of OFQUAL approved past paper questions	The naturally inquisitive nature of maths supports decision making, SMSC and FBV will be addressed through the use of OFQUAL approved past paper questions	The naturally inquisitive nature of maths supports decision making, SMSC and FBV will be addressed through the use of OFQUAL approved past paper questions	The naturally inquisitive nature of maths supports decision making, SMSC and FBV will be addressed through the use of OFQUAL approved past paper questions
Key Assessment Focuses, suggested Assessments and Feedback week	Week 7 45-minute QMA on Autumn Term topics	Week 14 45-minute QMA on topics covered to date	Week 17 45-minute QMA on topics covered to date	Week 25 45-minute QMA on topics covered to date	Week 32 45-minute QMA on topics covered to date	Week 35 45-minute QMA on topics covered to date
Special Events						
Possible Visits						