Maths- Y10F

HALF TERM 5 April -May	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
TOPIC (S)	Algebra Review	Simultaneous Equations	Simultaneous Equations	Transformations	Transformations	Transformations	
Knowledge & Skills development	**Algebra Review** • Understand and use the concepts and vocabulary of expressions, equations, formulae, identities, inequalities, terms and factors (review of Year 9) • Simplify and manipulate algebraic expressions (including those involving surds) by: collecting like terms multiplying a single term over a bracket taking out common factors • Deduce expressions to calculate the nth term of a linear sequence • Solve linear equations in one unknown algebraically including those with the unknown on both sides of the equation (review of Year 9) **Simultaneous Equations** • solve two simultaneous equations in two variables (linear/linear) algebraically • find approximate solutions using a graph • translate simple situations or procedures into algebraic expressions or formulae derive two simultaneous equations, solve the equations and interpret the solution **Transformations** • identify, describe and construct congruent and similar shapes, including on coordinate axes, by considering: • rotation • reflection • translation • enlargement • enlargement including fractional scale factors • describe translations as 2D vectors						
Assessment / Feedback Opportunities	Topic assessments	Self-assessment sheets	Homework (written and online)	Formative teacher assessment - verbal	Retrieval practice		
Cultural Capital	Application of geometry in real life situations Application of sensible rounding in problem solving						

SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	Willingness to participate in, and respond to mathematical opportunities. Use of social skills in different contexts, including working and socialising with pupils from different religious, ethnic and socio-economic backgrounds.
Reading opportunities	What's the point of maths? Murderous Maths, Marvellous Maths, Launch a rocket into space, Humble Pi.
Key Vocabulary	Simultaneous, Equations, Linear, Variable, Unknown, Substitution, Approximate, Intersect , transform, translate, rotate, enlarge, reflect, symmetry, congruent, similar, scale factor, vector, centre, direction, expressions, identities, equations, formulae, factorise, like-terms, nth term, sequence, solve, unknown, inverse operations.
Digital Literacy	Desmos, DFM, MSTeams
Careers	Engineering, Business, Architecture, Building, Gaming, Banking, Design.