

YEAR 10 HIGHER

HALF TERM 2

What? When? Why?	Lesson 1 Learning intentions (what can a student do at the end of the lesson)	Lesson 2 Learning intentions (what can a student do at the end of the lesson)	Lesson 3 Learning intentions (what can a student do at the end of the lesson)	Lesson 4 Learning intentions (what can a student do at the end of the lesson)
Week 1	Generate terms of a sequence from either a term-to-term or a position-to-term rule	Understand and use n'th term of a linear sequence and a quadratic sequence	Find the term to term and position to term rule of a linear sequence.	Find the n'th term of a linear sequence.
Week 2	Recognise and use: triangular, square and cube numbers, arithmetic, geometric, Fibonacci and quadratic sequences	Find the n'th term of a quadratic sequence	Find the n'th term of a quadratic sequence	Work with coordinates in all 4 quadrants(R) Plot graphs of equations that correspond to straight-line graphs in the coordinate plane.(R)
Week 3	Find the midpoint of a line segment. Find the gradient of a line.(R)	Use the form $y=mx+c$ to identify parallel and perpendicular.	Use the form $y=mx+c$ to identify parallel and perpendicular.	Find the equation of the line through 2 given points or through one point with a given gradient.
Week 4	Find the equation of the line through 2 given points or through one point with a given gradient.	Identify and interpret gradients and intercepts of linear functions graphically and algebraically (R).	Real life graphs	Apply and interpret limits of accuracy including upper and lower bounds
Week 5	Use standard units of measure and related concepts (length, area, volume/capacity, mass, time, money etc.)(R) know and use metric conversion factors for length, area, volume and capacity	Change between metric units of volume/capacity and mass	. Identify properties of the faces, surfaces, edges and vertices of: cubes, cuboids, prisms, cylinders, pyramids, cones and spheres Calculate the perimeters of 2D shapes and composite shapes made of rectangles	Calculate the area of composite shapes comprising of rectangles (R)
Week 6	Know and apply formulae to calculate area of:triangles Find length of a side given area and other sides.	Know and apply formulae to calculate area of:parallelograms Find length of a side given area and other sides.	Know and apply formulae to calculate area of:trapezia Find length of a side given area and other sides.	Find the surface area of cubes and cuboids

Week 7	Find the surface area of pyramids and composite solids	Problem solving involving area.	Compound units: speed, distance and time.	Drawing and interpreting distance time graphs
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