

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 Sequences	Describe and continue sequences	Predict and check next term(s) Generate terms of a sequence from term to term rule	Sequences in a table and graphically Recognise arithmetic sequences (linear)	Linear and non-linear sequences Move freely between different numerical, algebraic, graphical and diagrammatic representations
Week 2 Sequences	Continue linear sequences Make and test conjectures about patterns and relationships	Continue non-linear sequences Substitute values in expressions, rearrange and simplify expressions.	Explain the term-to-term rule Describe how sequences change from one term to the next eg. linear or non linear	Explain the term-to-term rule Find missing terms (H) Produce graphs of linear functions of one variable.
Week 3 Algebraic notation	Given a numerical input, find the output of a single function machine Use function machines alongside bar modelling and letter notation	Use inverse operations to find the input given the output	Algebraic notation represented in words and bar models	Use diagrams and letters with single function machines Find the function machine given a simple expression
Week 4 Algebraic notation	Substitute values into single operation expressions Rearrange and simplify expressions whilst substituting values	Find numerical inputs and outputs for a series of two-step function machines Use diagrams and letters with a series of two-step function machines	Find the function machines given a two-step expression	Substitute values into two-step expressions
Week 5 Algebraic notation Equality and equivalence	Generate sequences given an algebraic rule	Represent one and two-step functions graphically	Understand the meaning of equality Understand and use fact families, numerically and algebraically	Solve one-step linear equations involving $\pm$ using inverse operations
Week 6 Equality and equivalence	Solve one-step linear equations involving $\times/\div$ using inverse operations	Understand the meaning of equivalence	Understand the meaning of like and unlike terms	Simplify algebraic expressions by collecting like terms, using the $\equiv$ symbol
Week 7 Equality and equivalence				HALF TERM