Discrete Provision for Learners with Autism KS3 Curriculum Overview

Subject: Mathematics

Formal

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Stage 3 Progression Steps (1, 2, 3, 4)	**Place Value** Numbers to 50 10s, 1s 100s, 10s, 1s 1000s,100s,10s,1s **Addition & Subtraction** Up to 20 2 digit numbers 3 digit numbers 4 digit numbers	**Shape/Geometry** Sort/name 2D & 3D Properties 2D & 3D Angles & lines Triangles & quadrilaterals **Place Value** Numbers to 100 **Multiplication** 2, 5, 10 times tables 3, 4, 8 times tables Up to 12 x 12	**Multiplication & Division** Groups, sharing **Division** By 2, 5, 10 2 digits by 1 digit 3 digits by 1 digit **Statistics** Sorting Block diagrams Bar charts Line graphs	**Measures** Non standard Basic measuring Comparing & perimeter Length, perimeter & area **Fractions** Half, quarter Half, quarter, third Tenths Equivalent fractions	(continue fractions) **Position and Direction** Position Turn Movement Using grids **Time** Half hours Quarter hours 5 minutes Digital	continue time) **Money** Recognising money Counting p or £ Giving change Four rules of number **Decimals** 2 decimal places

Key Stage 3 Progression Steps (5, 6, 7, 8)	**Place Value** To a million To 10 million Decimals **Number** Standard Form BIDMAS **Addition & Subtraction** > 4 digit numbers Four Rules of Number Four Rules - decimals **Geometry** Parallel lines	**Geometry** Use of protractor Angle facts Constructions Trapezia / Circles Symmetry/Reflection **Multiplication** Factors & multiples Multiplication & Division **Number** Primes & proof **Algebra** Sequences Cartesian Plane	**Division** 4 digits by 2 digits **Algebra** Basic algebra Notation Equality/equivalence Equations Sequences Indices **Statistics** Tables Pie charts Sets & Probability Representing Data	**Measures** Perimeter, area & volume Area of shapes **Geometry** Reasoning **Statistics** Tables & Probability **Fractions** Mixed & improper +, -, x, ÷ +,- improper / mixed **Statistics** Data handling cycle Measures of location (finish summer term)	(continue topic) **Position&Direction** Reflections & translations Co-ordinates **FDP** equivalence x, ÷ improper / mixed **FDP** 3 decimal places Conversions % of an amount Fraction/% of an amount Fractions & % (finish summer 2)	(continue topic) **Ratio&Proportion** Calculating ratio Ratio, scale & proportion **Converting Units** Metric Imperial **Number/Algebra** Directed Number & Equations

Semi-Formal

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Pre-Step 6	**Number: Place Value** Number to 3; counting out sets to 3; counting toys or pictures Recognising numerals 1-5; ordinal numbers	**Addition & Subtraction:** Comparing groups; identifying more Number to 5: rote counting to 5; matching; sequencing; collecting items	**Geometry: Properties of shape** Manipulate 3d shapes Pick out described shapes ie circles in the room. Basic 2d shapes	**Measures – Length & Height;** Comparing size of objects big and small **Number - Fractions** Make a whole by finding two halves	**Geometry: Position & Direction** Look for objects not in usual place (permanence). In, on, under, inside **Measures - Time** Now, next Today, tomorrow	**Addition and subtraction** Number to 5: rote counting to 5; matching; sequencing; collecting items **Measures – Money** Awareness of coins Amounts of money in 1ps
Pre-step 7	**Number: Place Value** Number to 5: rote counting to 5; matching; sequencing; collecting items Recognising numerals 1-5; ordinal numbers	**Addition & Subtraction:** Comparing groups; identifying groups with less. Adding on 1. Numbers to 10; counting 6, 7, 8; Counting 9, 10; Comparing groups to 10	**Geometry: Properties of shape** Recognising repeating patters with shapes Basic 2D shapes	**Measures – Length & Height;** long, longer, short, shorter, tall, taller- using concrete apparatus **Number - Fractions** Find a half	**Geometry: Position & Direction** Forwards and backwards Explore position of objects **Measures - Time** Now, next Today, tomorrow	**Addition and subtraction** Numbers to 10; counting 6, 7, 8; Counting 9, 10; Comparing groups to 10 **Measures – Money** Awareness of coins Amounts of money in 1ps

Pre-step 8	**Number: Place Value** Number to 5; rote counting to 10; counting aloud Recognising numerals 1-9; ordinal numbers	**Addition & Subtraction:** Comparing groups; identifying groups with more or fewer; 1 more and 1 less Combining 2 groups; adding and taking away within 10	**Geometry: Properties of shape** Circle, square, triangle, rectangle – recognition, sorting, describing. *Simple patterns*	**Measures – Length & Height;** long, longer, short, shorter, tall, taller. **Number - Fractions** Find a half; find a whole. Equal halves	**Geometry: Position & Direction** Forwards and backwards **Measures - Time** Now, next Today, tomorrow Before, after	**Addition and subtraction** 1 more and 1 less Combining 2 groups; adding and taking away within 10 **Measures – Money** coin recognition; find all the coins like this; Amounts of money in 1ps
Pre-step 9 **White Rose**	**Number: Place Value** Number to 5 – number recognition; sequencing; matching quantities; Number bonds to 5. Comparing non-identical groups; Sorting collections into sets.	**Addition & Subtraction:** Comparing groups; identifying groups with more or fewer; 1 more and 1 less. Combining 2 groups to find the whole; number bonds to 10 using 10 frame	**Geometry: Properties of shape** Circle, square, triangle, rectangle – recognition, sorting, describing. patterns	**Measures – Length & Height;** Correct vocabulary – long, longer, short, shorter, tall, taller. Comparing length of classroom objects; using non-standard items to measure length / height (eg cubes, hands, straws) **Number - Fractions** Find a half; find a whole. Equal halves	**Geometry: Position & Direction** Forwards, backwards describe position using: 'top', 'in between', 'bottom', 'above' and 'below' **Measures - Time** Days of the week; now, next, later. How many sleeps until...; what can we do in a given period of time? Birthdays on a calendar	**Number – Multiplication & Division** Grouping in 2s; sharing among peers; equal and unequal **Measures – Money** Coin matching, coin recognition; find all the coins like this; coin sorting role play; using money in real-life contexts.

Pre-step 10 and Step 1	**Place value:** Counting forwards and backwards to 10 or 20; recognising and sequencing numbers to 10 or 20; find 1 more or 1 less than; use terms 'more than', 'less than', 'most' and 'least'. .	**Addition & Subtraction:** Number bonds to 10; adding and subtracting 1 digit numbers; recognising '+' '-' and '='. Addition by counting on; number bonds to 10 using 10 frames. Counting forwards and backwards along a number line	**Geometry: Properties of shape** Recognising and naming 2D shapes – rectangle, square, circle, triangle. Recognising and naming 3d shapes – cuboid, cube, pyramid, sphere Patterns	**Measures – Length & Height; Weight & Volume** Vocabulary relating to length and height; comparing length and height; measuring length and height using non-standard units; begin using ruler to measure shorter lengths. **Number - Fractions** Halves, whole, quarters, equal, unequal	**Geometry: Position & Direction** Forwards, backwards, left, right, up, down; half turn, quarter turn; give directions for routes on a grid; describe position using: 'top', 'in between', 'bottom', 'above' and 'below' **Measures - Time** Before & after; ordering events; days of the week; special dates; today, yesterday, tomorrow; months of the year Clock faces; o'clock; half past, quarter past.	**Number – Multiplication & Division** Counting In 2s and 5s; making groups – both equal and unequal. Sharing quantities fairly and unfairly. **Measures – Money** Coin recognition; coin sorting; equivalent values; making amounts in different ways.