

BUSY ANT MATHS
N.I. CURRICULUM MATCHING CHART

Number

LEVEL: 1

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Use, estimate, add and subtract numbers up to at least 10;	1	1	1-2	1-4	1-4
	1	4	1	1-4	1-4
Understand conservation of number;	1	3	3	1-2	1-2
Create and describe repeating patterns using objects, numbers or pictures;	1	1	1	4	4
Recognise and use coins;	1	4	3	1-2*	1

*Both lessons include coin recognition as well as understanding the value of each coin, the latter aspect being at Level 2

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Measures

LEVEL: 1

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Use everyday language associated with length, 'weight', capacity and area to describe, compare and order three objects;					
<i>Length</i>	1	2	3	1-2	1
<i>'Weight'</i>	1	6	3	1-2	1-2
<i>Capacity</i>	1	8	3	1	1-2
Sequence familiar events;	1	7	3	2**	1
Know the days of the week and their sequence;	1	7	3	1*	1
Recognise 'special' times on the clock;	1	12	3	1***	--

* Activity 1 in Pupil Book 1B, page 34

** Activity 1 in Pupil Book 1B, page 35

*** Plenary activity in Yr 1 Teaching File

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Shape and Space

LEVEL: 1

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Sort 2-D and 3-D shapes and make and describe 2-D and 3-D constructions	1	1	3	2	1
Use language and follow instructions, in practical situations, for position and movement	1	3	3	1-2	1-2

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Handling Data

LEVEL: 1

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Sort and classify real objects for one criterion and re-sort for a different criterion, using Venn, Carroll and Tree diagrams <i>Sorting</i>	2	7	3	1	1
Collect information and record using real objects or drawings	--	--	--	--	--

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Number

LEVEL: 2

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Read, write and order whole numbers to at least 100;	2	1	1	1-3	1-3
	2	5	1	2-4	2-4
	2	9	1	3	3
Understand that the place of a digit indicates its value;	2	1	1	1-4	1-4
	2	9	1	2,4	2,4
	3	1	1	1-2	1-2
Use quick recall of number facts up to 10;	2	1	2	1	1
Add and subtract mentally within 20 and in written form;	2	1	2	2,4	1-2
	2	2	1	1-4	1-4
Use addition and subtraction patterns within 20 to explore the relationship between addition and subtraction;	2	1	2	3	1-4
Understand that addition is commutative and subtraction is not;	2	1	2	1	1
	2	7	1	4	4
Add and subtract within 100;	2	2	2	1-2	1-2
	2	5	1	1	1
	2	7	1	1-3	1-3
	2	7	2	1-2	1-2
	2	8	1	1	1
	2	9	1	1	1
	2	10	1	1,3	1,3
	2	10	2	1	1
	Understand the use of a symbol to stand for an unknown number;	2	2	2	3-4
2		7	1	3	2

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Understand and use halves and quarters;	2	4	2	1-4	1-4
Understand relationships between all coins up to £1 and use this knowledge to carry out shopping activities;	1	4	3	3-4	3-4
	2	7	2	3-4	3-4

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A.T. Measures

LEVEL: 2

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Identify and use non-standard units to measure length, 'weight', capacity and area;					
<i>Length</i>	1	2	3	3	1,2,4
<i>'Weight'</i>	1	6	3	3	3-4
<i>'Weight' – Problems involving mass (1-2)</i>	1	10	3	3-4	3-4
<i>Capacity</i>	1	8	3	2-3	2-3
Understand the need for standard units and know the most commonly used units of length, 'weight', capacity and time;					
<i>Length - Centimetres</i>	1	2	3	4	2,3,4
<i>- Metres</i>	1	10	3	1-2	1-2
<i>'Weight' – Grams and kilograms</i>	1	6	3	4	3-4
<i>Capacity – Introducing the litre</i>	1	8	3	4	4
<i>Time - Measuring time in hours and minutes</i>	1	12	3	3	3
Name and order days of the week, months of the year and seasons;	1	7	3	1-2*	1-2

Read simple digital and analogue clock displays;					
<i>/Analogue time – O’ clock and half-past</i>	1	7	3	3-4	3-4
- Reading and ordering times	1	12	3	1	1
- Drawing times	1	12	3	2	1,2,4
- Time problems	1	12	3	4	1,2,4
- Quarter past	2	4	3	1	1

*Activity 2 in Pupil Book 1B, pages 34 & 35.

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Shape and Space

LEVEL: 2

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Recognise and name common 2-D and 3-D shapes;					
<i>2D</i>	1	1	3	1,3-4	1-4
	1	11	3	1-2	
<i>3D</i>	1	5	3	1-3	1-3
	1	11	3	3-4	
Sort 2-D and 3-D shapes, giving reasons for sorting;	1	5	3	4	4
Use language and follow instructions, in practical situations, for turning movements;	1	3	3	3-4	3-4
	1	9	3	3-4	3-4

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A.T. Handling Data

LEVEL: 2

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Sort and classify objects for two criteria using Venn, Carroll and Tree diagrams;					
<i>Carroll diagrams</i>	2	7	3	2	2
<i>Venn diagrams</i>	2	1	3	3*	
	2	5	3	4*	
	2	7	3	4	4
Collect information and record results using simple tables, block graphs, simple pictograms and diagrams;					
<i>Tables</i>	2	7	3	3	3
<i>Block graphs</i>	2	11	3	1-2	1-2
<i>Pictograms</i>	2	11	3	3	3
<i>Block graphs & Pictograms</i>	2	11	3	4	4
Discuss and interpret information;	<i>This aspect is interwoven in all the lessons outlined above.</i>				

* The use of a Venn diagram (Pupil Book 2A, page 13 & Pupil Book 2B, page 12) may be at the appropriate level, the subject matter is at a higher level.

BUSY ANT MATHS

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Number

LEVEL: 3

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Understand, use, add and subtract numbers to at least 1000;	3	3	1	1-4	1-4
<i>Addition – expanded/column addition (1-2)</i>	3	7	1	1-4	1-4
<i>Subtraction – decomposition (1-2)</i>	3	7	2	1-3	1-3
<i>Addition and subtraction in the context of money</i>	3	7	2	4	4
<i>Mental Addition & Subtraction – 3-digit numbers, with number line</i>	3	9	2	1	1
<i>Mental Addition & Subtraction – jumping forward/back to target</i>	3	11	2	3-4	3-4
<i>Addition – column (3)</i>	3	9	2	1-2,4	1-4
<i>Subtraction – (3)</i>	3	9	2	3,4	1-4
<i>Estimating and checking column addition</i>	3	11	1	1-2	1-2
<i>Estimating and checking column subtraction</i>	3	11	2	1-2	
Understand and use the concept of place value in whole numbers;	3	1	1	3-4	3-4
	3	5	1	1-4	1-4
	3	8	1	1	1-2
	3	9	1	1-4	1,2,4
<i>Place value – link to multiplication (partitioning/grid/written method (1)</i>	3	10	1	1-4	1-4
Use quick recall of number facts up to 20;	--	--	--	--	--
Add and subtract mentally two 2-digit numbers within 100;	3	1	2	1,3	1,3
Approximate to the nearest 10 or 100;	--	--	--	--	--
Identify and describe simple number patterns within the 100 square;	--	--	--	--	--
Know 2, 3, 4,5 and 10 multiplication facts;	2	8	1	2-4	2-4
	3	2	1	1-4	1-4

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
<i>Including Multiples of 2 & 4</i>	3	4	1	1-4	1-4
<i>Revising 2,4,5 7 10 multiplication facts</i>	3	6	1	1,2,4	1-4
<i>Revising 2,4,5 7 10 division facts</i>	3	8	1	2,4	3,4
	3	8	1	3,4	3,4
<i>Multiplication TU x U: Using the expanded written method</i>	3	12	1	1	1
<i>Multiplication TU x U: Using the formal written method (1)</i>	3	12	1	2	2
<i>Multiplication TU x U: Using the formal written method (2)</i>	3	12	1	3	3
Understand that multiplication is commutative;	3	2	1	3	3
	3	4	1	4	4
Explore and use division in practical situations;	3	6	1	2-4	4
	3	12	2	1-4	1,2,4
Understand and use simple fractions in context;	3	2	2	1-4	1-4
	3	6	2	1-4	1-4
	3	8	2	1-4	1-4
	3	10	2	1-2	1-2
Use number skills in the context of money up to £10.00;					
<i>Addition</i>	3	5	2	1,3,4	1,3,4
<i>Subtraction</i>	3	5	2	2,3,4	2,3,4
<i>Addition & Subtraction</i>	3	11	1	3-4	3-4

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Measures

LEVEL: 3

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Choose and use appropriate standard units to estimate, measure and record Length, capacity, volume, 'weight', time and temperature;					
<i>Length (metres and centimetres)</i>	3	6	3	1	1
	3	6	3	3	3
<i>Volume & Capacity</i>	2	8	3	1	1
	2	10	3	4	4
<i>'Weight'</i>	2	10	3	3	3
	3	10	3	3	2-3
<i>Time</i>	3	4	3	1	1
<i>Temperature</i>	2	10	3	1	1
Read simple measuring instruments with an appropriate degree of accuracy;					
<i>Scales – mass</i>	3	2	3	2	2
<i>Cylinders – capacity</i>	3	10	3	2	2

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
<i>Rulers – centimetres/metres</i>	3	6	3	1,3	1,3
Find the area of shapes by counting whole and half squares;	4	8	3	2-3	2-3
Read and interpret a calendar;	3	11	3	3	3
Read digital and analogue clock displays;					
<i>Analogue</i>	2	4	3	3-4	3-4
	2	12	3	1-4	1-4
	3	4	3	1	1
<i>Analogue and digital</i>	3	11	3	1-2	1-2

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Shape and Space

LEVEL: 3

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Recognise, name and describe common 2-D shapes;	2	1	3	1	1
	2	1	3	4	4
	3	5	3	1-2	1-2
Recognise, name and describe common 3-D shapes;	2	5	3	1*-2	1-2
	3	1	3	1-4	1-4
<i>Sorting 2-D and 3-D shapes</i>	2	5	3	3-4	3-4
Recognise one line of symmetry in common 2-D shapes;	2	1	3	2	2
	3	5	3	3	3-4
Recognise tessellations through practical activities;	2	3	3	1-2	1-2
Recognise right angles in the environment and understand angle as a measurement of turn;	2	3	3	4	4
	2	9	3	1-4	1-4
	3	3	3	1-4	1-4
Use grid references in practical situations;	2	3	3	3	3

*Activity book 2B, Unit 5, Week 3, Lesson 1 refers to 'vertices' instead of corners, although the main body of the activity is at Level 3.

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Handling Data

LEVEL: 3

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Collect and record relevant data for a given activity;	2	7	3	2-4	2-4
	3	7	3	1	1-3
Draw and label pictograms and bar charts;	3	7	3	2-4	2-3
Read and interpret information from tables, pictograms, diagram, lists, bar charts, simple pie charts and databases;	3	7	3	2-4	1-4
	3	12	3	1-4	1-4

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Number

LEVEL: 4

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Read, write and order numbers within 10 000;	4	1	1	1-3	1-3
Use knowledge of place value to multiply and divide whole numbers by 10 and 100;	4	2	1	1-4	3-4
	4	4	2	2	3
Understand place value to two decimal places;	4	3	2	1-4	1-4
Approximate within 10 000 to the nearest 10, 100 and 1000;	--	--	--	--	--
Estimate answers to calculations and approximate by rounding;	4	3	1	4*	4
Add, subtract, multiply and divide whole numbers using a range of mental, written and calculator methods;					
<i>Mental (addition & subtraction - 1/2)</i>	4	4	1	4	3
<i>Mental (subtraction - 3)</i>	4	1	2	1-4	1
<i>Mental (addition - 2)</i>	4	5	2	1	1
<i>Mental (multiplication & division)</i>	4	3	1	1	4
<i>Mental (division)</i>	4	2	1	4	4
<i>Mental (multiplication & division problem solving)</i>	4	4	2	3	
<i>Written (addition – 1/2)</i>	4	4	2	4	2-4
<i>Written (subtraction – 1/2)</i>	4	3	1	2-4	2
<i>Written (multiplication)</i>	4	5	2	2-3	2-3
<i>Written (division – multiples of 10, 100 & 1000)</i>	4	4	1	2	3
<i>Written (division – HTU by Units)</i>	4	4	2	2	1-4
<i>Written (division – solving word problems: rounding remainders)</i>	4	6	1	1	--
<i>Calculator</i>	4	6	1	4	--
Add and subtract numbers with up to two decimal places;	4	5	2	4	4
	4	7	2	1-4	1-4

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Use the relationship between addition and subtraction to check calculations;	4	1	2	1-4	4
Know multiplication facts to 10 x 10 and derive associated division facts;	4	2	1	1	1
Understand and use multiples and factors;	4	4	1	3	4
	5	4	1	3	4
Use fractions to describe quantities;	4	2	2	1	1
Perform simple calculations involving unitary fractions;	3	6	1	1	1
	3	10	2	1	2
Understand equivalence of fractions;	4	2	2	1-2	1-2
Understand and use simple percentages;	4	8	2	1-4	1-4
Interpret and apply simple rules expressed in words;	--	--	--	--	--
Interpret a calculator display when solving money problems;	--	--	--	--	--
Make choices about spending and value for money;	--	--	--	--	--
Know different ways in which payments for goods can be made;	--	--	--	--	--

*The strategy could be taught as part of the lesson, Page 134, Teachers' Guide 4.

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Measures

LEVEL: 4

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Estimate and measure length, weight/mass, time and temperature, working to an appropriate degree of accuracy;					
<i>Time</i>	3	4	3	4	1-4
	3	11	3	1-4	1-4
<i>Length (millimetres)</i>	3	6	3	2	2
<i>(centimetres and metres)</i>	3	6	3	3	3
<i>Capacity</i>	3	10	3	1-3	1-3
Understand the relationship between metric units;					
<i>Mass</i>	3	2	3	1-3	1-3
<i>Length (centimetres and millimetres)</i>	3	6	3	2	2
	3	6	3	3-4	3-4
<i>Capacity</i>	3	10	3	1-3	1-3

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Add and subtract common measures;					
<i>Mass</i>	3	2	3	4	4
<i>Length</i>	3	6	3	4	4
<i>Capacity</i>	3 3	2 10	3 3	3 4	4 4
Estimate area and volume of shapes by counting squares/cubes;					
<i>Area</i>	4	8	3	2-3	2-3
Work out perimeters of simple shapes;	3 4	8 8	3 3	1-4 1	1-4 1
Understand and use digital and analogue clock displays, using am, pm and 24-hour notation	4	4	3	1,2,4	1,3,4

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Shape and Space

LEVEL: 4

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Explore the properties of common 2-D and 3-D shapes;					
<i>2-D Shapes:</i>					
<i>Regular polygons</i>	4	5	3	4	4
<i>Triangles</i>	4	9	3	1	1
<i>Parallelogram and rhombus</i>	4	9	3	2	2
<i>Trapezium and kite</i>	4	9	3	3	3
<i>Quadrilaterals</i>	4	9	3	4	4
<i>3-D Shapes</i>	3	1	3	1-4	1-4
Explore the relationship between 2-D and 3-D shapes;	3	1	3	1-4	1-4
Recognise and draw lines of symmetry in a variety of 2-D shapes;	--	--	--	--	--
Know the eight points of the compass;	--	--	--	--	--
Understand and use the language of line, angle and location;					
<i>Angle</i>	4	5	3	1-3	1-3
<i>Horizontal and vertical lines</i>	3	9	3	1	
<i>Perpendicular and parallel lines</i>	3	9	3	1	
Use coordinates in the first quadrant;	4	2	3	2-3	2-3
	4	11	3	1-3	2-3

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Handling Data

LEVEL: 4

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Collect, group, record and present data with given class intervals;	--	--	--	--	--
Present and interpret data using a range of graphs, tables, diagrams, spread sheets and databases;	4	7	3	1-4	1-4
	4	12	3	1-4	1-4
Understand and use the language of probability;	--	--	--	--	--

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Number

LEVEL: 5

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Read, write and order numbers of any size;	5	1	1	1-4	1-4
	5	5	1	1-2	1-2
	5	9	1	1-2	1-2
Use knowledge of place value to multiply and divide whole numbers by 10, 100 and 1000;	5	2	1	1-4	1-4
Understand place value to three decimal places;	5	7	1	1-4	1-4
Round decimals to the nearest whole number;	5	7	1	3	-
Multiply and divide numbers with up to two decimal places by a whole number;	5	2	1	1-4	1-4
	5	4	1	1-4	1-4
	5	6	1	1-4	1-4
	5	8	1	1-4	1-1
	5	10	1	1-4	1-4
	5	12	1-2	1-4	1-4
Check calculations by applying inverse operations; <i>Addition/Subtraction – Pupil Books 5a – 5c</i> <i>Multiplication/Division - Pupil Books 5a – 5c</i>	5	1	2	1	
	5	3	1	1	
	5	5	2	1	
	5	7	2	2-3	
	5	9	2	3	
	5	2	1	2	
	5	4	1	2	
	5	4	2-3	2	
	5	8	1	2,4	
	5	12	1	2	

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Check calculations by applying inverse operations; <i>Addition, subtraction, multiplication and division - Pupil Book 5a</i>	5	4	1	4	
Understand and use negative numbers in practical situations;	5	5	1	3-4	3-4
Understand and use square, cube and prime numbers;	4 5 5	4 4 4	1 1 2	1 1 1	1 1 1-2
Understand the relationship between common fractions, decimals and percentages;	5 5 5	3 8 11	2 2 2	1 1-2 1	1 1-4 1
Calculate fractions and percentages of quantities, including money;	4 4 5 5	2 6 2 11	2 3 2 2	3-4 3-4 1 2-3	3-4 3-4 1 2-4
Use understanding of equivalence to add and subtract fractions;	5	6	2	3-4	3-4
Devise and use rules for generating sequences in words and/or symbolic form;	6	5	2	2	2
Express and use formulae in words and/or symbolic form; <i>Perimeter</i> <i>Area</i> <i>Perimeter and Area</i> <i>Simple formulae</i>	5 5 5 6	8 8 8 5	3 3 3 2	1 2 3 1,3	1 2 3 1,3
Make informed choices about personal budgeting and spending;	--	--	--	--	--

BUSY ANT MATHS
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Measures

LEVEL: 5

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Convert from one metric unit to another;					
<i>Convert between grams and kilograms</i>	4	3	3	1-4	1-4
	5	3	3	1,3	1
<i>Convert between kilometres and metres</i>	4	6	3	1-4	1-4
	5	6	3	3,4	1,3,4
<i>Convert between millilitres and litres</i>	4	10	3	1-3	1-4
	5	10	3	1	1
Use the four operations to solve problems related to measure;					
<i>Mass</i>	5	3	3	3	1,3,4
<i>Length and scaling</i>	5	6	3	3,4	3,4
<i>Perimeter and area</i>	6	8	3	1	1
<i>Volume and capacity</i>	4	10	3	4	4
	5	10	3	4	4
<i>Time</i>	5	4	3	3-4	3-4

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Calculate areas of squares, rectangles and right-angled triangles and volumes of cubes and cuboids:					
<i>Area of squares and rectangles</i>	4	8	3	4	4
<i>Area – irregular shapes formed from rectangles</i>	5	8	3	2,4	4
<i>Area – right-angle triangles</i>	6	8	3	3	3
<i>Area and perimeter</i>	5	8	3	3	3
<i>Volume of cubes and cuboids</i>	5	10	3	3-4	3-4
Calculate perimeters of a range of shapes;	5	8	3	1	1
<i>Area and perimeter</i>	5	8	3	3	3
Understand and use scale in the context of simple maps and drawings;	--	--	--	--	--
Read and interpret timetables;	5	4	3	1-2	2

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Shape and Space

LEVEL: 5

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Describe the properties of regular and irregular 2-D shapes in terms of sides, angles, symmetry and tessellations;					
<i>Regular and irregular polygons</i>	5	9	3	3	3
	6	5	3	2	2
<i>Symmetry</i>	4	1	3	1	
Reflect 2-D shapes in a line;	4	1	3	2-4	2-4
Describe the properties of 3-D shapes in terms of faces, edges and vertices;	5	1	3	1-2	1-2
Draw nets of 3-D shapes;	6	1	3	2-4	2-4
Estimate, measure, draw and label angles up to 360 degrees;	5	5	3	1-4	1-4
	5	9	3	1,2,4	1,2,4
	6	5	3	1-4	1-4

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Handling Data

LEVEL: 5

Pupils can:	YEAR	UNIT	WEEK	LESSON	L.A.
Collect, organise, record and represent data;	6	12	3	3	3
Design and use a data collection sheet;	6	7	3	3	3
Construct, label and interpret a range of graphs, tables, diagrams, spreadsheets and databases;					
<i>Line Graphs</i>	5	7	3	1-2	1-2
	5	12	3	1	1
	6	7	3	2	2
	6	12	3	2	2
<i>Tables and timetables</i>	5	7	3	3	3
	5	12	3	2	2
<i>Time graphs</i>	5	7	3	4	4
	5	12	3	3	3
<i>Pie charts</i>	6	7	3	1	1
	6	12	3	1	1
<i>Presenting data</i>	5	12	3	4	4
Understand, calculate and use mean and range;	6	12	3	4	4
	6	12	3	4	4
Place events in order of likelihood;	--	--	--	--	--