Wilkinson Primary School
Target Card
Pre Key Stage Maths
Standard 1

I can:

- role play shopping
- show that I know the difference between 'one' and 'lots' by telling someone what there is one object or a group of objects.
- hand one object to each of my friends while someone is counting.

Wilkinson Primary School
Target Card
Pre Key Stage Maths
Standard 2

I can:

- Point to the big or small object when shown two objects.
- Sort objects e.g. Groping all the small balsstogether or sorting shapes into triangles and circles.
- Say number names to 5 in the correct order e.g. in a song or joining in with an adult.
- Understand numbers up to 5 by putting together the right number of objects when asked to.
- Copy and continue a simple pattern using real objects e.g. apple, orange, apple, orange

Wilkinson Primary School
Target Card
Pre Key Stage Maths
Standard 3

I can:

- Identify how many objects there are in a group of up to 10 objects recognising smaller groups without having to count and by counting the objects in larger groups up to 10.
- Know that the last number I count to is the total number of what I have counted so I don't need to re-count the group when asked how many there are.
- Use real-life objects to add and subtract one from a group of objects and say how many there are after having done this.
- Copy ad continue patterns using objects e.g. apple, banana, orange, apple, banana, orange.
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Wilkinson Primary School
Target Card
Pre Key Stage Maths
Standard 4

I can:

- Read and write digits 0-9
- Show that I know what the symbols +, - and = mean.
- Solve number problems involving the addition and subtraction of numbers up to 10.
- Make numbers up to 5 using number bonds e.g 2+2=4 and 3+1 = 4.
- Use the commutative law when adding e.g. 2+3 = 5 and 3+2 = 5.
- Show an understanding of inverses in addition and subtraction e.g. if 3+2 = 5, then 5-2=3.
- Show that I know that the total number of objects changes when objects are added or taken away.
- Show that I know that the total number of objects remains the same when they are rearranged, so long as none have been added or taken away.
- Count to 20, showing that the next number in the count is one more or one less.
- Recognise some common 2D shapes.

Wilkinson Primary School
Target Card
Pre Key Stage Maths
Standard 5
KS 2 only

I can:

- read and write numbers to 100.
- Partition a two-digit number into tens and ones using resources to help me.
- Add and subtract two digit numbers and ones and two-digit numbers and tens and explain what I am doing using pictures or objects. #
- Recall at least 4 of the number bonds to 10 and give related facts (e.g. 6+4 = 10, 10-6 = 4)
- Count in twos, fives and tens from 0 and use this to solve problems.
- Know the value of different coins.
- Name some common 2-D and 3-D shapes from a group of shapes or from pictures of the shapes and describe some of their properties.

Wilkinson Primary School
Target Card
Pre Key Stage Maths
Standard 6
KS 2 only.

I can:

- Read scales and number lines going up and down in ones, twos, fives and tens.
- Partition any two-digit number into different combinations of tens and ones, explaining my thinking out loud, in pictures or using apparatus.
- Add and subtract any 2 digit numbers using an efficient strategy, explaining my method out loud, in picture or using apparatus.
- Recall number bonds up to 10 and use these to caluculate bonds to up to 20 . Recognise inverse relationships e.g. 3+14 = 17 so 17-14 = 3)
- Remember times table and division facts for 2, 5 and 10 and use these to solve simple problems. I understand that addition is commutative (can be done in any order).
- Identify 1/4, 1/3, 1/2, 2/4, 3/4 of a number or a shape and know that all parts must be equal in size or value as parts of the whole.
- Use different coins to make the same amount.
- Read the time on a clock to the nearest 15 minutes.
- Name and describe properties of 2D and 3D shapes, including number of sides, vertices, edges, faces and lines of symmetry.

I can	Maths – Year 1(emerging)	☺	Date
Number and Place Value	Count forwards in 1s, 2s, 5s and 10s up to 50 starting at any number.		
	Count backwards in 1s, 2s, 5s and 10s up to 50 from any number.		
	Read numbers from 1 to 10 in digits and words.		
	Write numbers from 1 to 10 in digits and words.		
	Say a number which is one more than any given number up to 50.		
	Say a number which is one less than any given number up to 50.		
	Make numbers using concrete objects and number lines.		
	Use =, >, <, most and least up to 50 in number sentences.		
	Understand mathematical statements up to 50 involving +, - and = signs.		
+ and -	Understand the words add, total, sum and find the difference.		
	Add 2 single digits up to 20.		
	Add a single digit number to a 2-digit number up to 20.		
	Add 3 single digits up to 20.		
	Subtract a single digit from a 2-digit number up to 20.		
	Answer addition number bonds to 10 very quickly.		
	Answer subtraction number bonds to 10 very quickly.		
	Solve one-step problems that involve addition up to 50 using apparatus.		
	Solve missing number problems that involve addition up to 50 using apparatus.		
	Solve one-step problems that involve subtraction from 50 using apparatus.		
	Solve missing number problems that involve subtraction up to 50 using apparatus.		

I can	Maths – Year 1(emerging)	☺	Date
Fractions	Identify that ten counters can be grouped into two sets.		
	Group 12 counters into 4 equal groups of 3 each.		
Shape/Position/Measures	Solve practical problems for lengths and heights such as longest and shortest.		
	Solve practical problems for mass and weights such as lightest and heaviest.		
	Solve practical problems for capacity and volume such as full and half-full.		
	Solve practical problems for time using terms such as fastest and slowest.		
	Identify coins and order them according to their value.		
	Put events in the right order using words such as: before, after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.		
	Chant the days of the week and the months of the year in order and, with support, identify today's date.		
	Tell when it is 12 o'clock and, with support, identify half past two.		
	Identify rectangles, squares, circles and triangles in the classroom and in the outdoor area when asked.		
	Select a pyramid from a set of 3-D shapes, with support.		
	Identify a sequence such as RBGRBG and continue it with support. (R=Red, B=Blue and G=Green).		
	Follow instructions from another pupil to walk to a place including the turns left or right.		

I can	Maths – Year 1(expected)	☺	Date
Number and Place Value	Count forwards in 1s, 2s, 5s and 10s up to 100 starting at any number.		
	Count backwards in 1s, 2s, 5s and 10s up to 100 from any number.		
	Read numbers from 1 to 20 in digits and words.		
	Write numbers from 1 to 20 in digits and words.		
	Say a number which is one more than any given number up to 100.		
	Say a number which is one less than any given number up to 100.		
	Make numbers using objects and number lines.		
	Use =, >, <, most and least up to 100 in number sentences.		
	Understand mathematical statements up to 100 involving +, - and = signs.		
+ and -	Understand the words add, total, sum and find the difference.		
	Add 2 single digits up to 20.		
	Add a single digit number to a 2-digit number up to 20.		
	Add 3 single digits up to 20.		
	Subtract a single digit from a 2-digit number up to 20.		
	Answer addition number bonds to 20 very quickly.		
	Answer subtraction number bonds to 20 very quickly.		
	Solve one-step problems that involve addition up to 100 using apparatus.		
	Solve missing number problems that involve addition up to 100 using apparatus.		
	Solve one-step problems that involve subtraction from 100 using apparatus.		
	Solve missing number problems that involve subtraction from 100 using apparatus.		
x and ÷	Solve one-step times table and division problems up to 20 using objects, graphs, charts and arrays with my teacher's help.		
	Understand the x and ÷ sign.		

I can	Maths – Year 1(expected)	☺	Date
	Tell you what halving and doubling are.		
Fractions	Tell you what happens if you add two equal halves of a shape together.		
	Tell you what happens if you add four equal quarters of a shape together.		
Shape/Position/Measures	Measure lengths and heights and write my results in centimetres and metres.		
	Measure mass and weights and write my results in grams and kilograms		
	Measure capacity and volume and write my results in millilitres, litres and cubes.		
	Measure how long things take and write my results in minutes, seconds and hours.		
	Tell you the difference between days, months and years, give today's date and describe future events such as 'in three years I will be in Year 4'.		
	Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.		
	Identify cuboids, cubes, pyramids and spheres.		
	Describe things which are either top, bottom, middle, next to and directions.		
	Describe things which have made half, quarter and three-quarter turns.		
	Identify rectangles, squares, circles and triangles in the classroom and in the outdoor area, independently.		
	In role play, select the correct coins to pay for an item costing 23 p and know that I should get some change from a £5 note.		
	Identify a sequence such as RBBGRBBG and continue it. (R=Red, B=Blue and G=Green).		
	Give instructions to another pupil to walk to a place including the turns left and right.		

I can	Maths – Year 1(exceeding)	☺	Date
Number and Place Value	Count forwards in 1s, 2s, 5s and 10s up to 150 starting at any number.		
	Count forwards in 3s up to 50 starting at any number.		
	Count backwards in 1s, 2s, 5s and 10s up to 150 from any number.		
	Count backwards in 3s up to 50 from any number.		
	Read numbers from 1 to 50 in digits and words.		
	Write numbers from 1 to 50 in digits and words.		
	Say a number which is five more than any given number up to 100.		
	Say a number which is five less than any given number up to 100.		
	Begin to partition numbers (10s, 1s).		
	Use =, >, <, most and least, up to 150 in number sentences and understand mathematical statements up to 150 for + and - signs.		
+ and -	Mentally add up 2 single digits up to 20.		
	Begin to solve word problems using add, total, sum and find the difference.		
	Add 3 single digits up to 20.		
	Add a single digit number to a 2-digit number up to 30.		
	Add 4 single digits up to 20.		
	Subtract a single digit from a 3-digit number up to 150.		
	Answer addition number bonds to 50 very quickly.		
	Answer subtraction number bonds to 50 very quickly.		
	Solve one-step problems that involve addition and subtraction up to 150 using apparatus.		
	Solve missing number problems that involve addition and subtraction up to 150 using apparatus.		
x and ÷	Solve one step times table and division problems up to 20 using objects, graphs, charts and arrays.		
	Begin to solve problems using the x and ÷ sign.		
	Solve problems which involve halving and doubling.		

I can	Maths – Year 1(exceeding)	☺	Date
Fractions	Demonstrate on a diagram what happens if you add two equal halves of a shape together.		
	Demonstrate on a diagram what happens if you add four equal quarters of a shape together.		
Shape/Position//Measures	Measure lengths and heights accurately and write my results in centimetres and metres.		
	Measure mass and weights accurately and write my results in grams and kilograms		
	Measure capacity and volume accurately and write my results in millilitres, litres and cubes.		
	Measure how long things take accurately and write my results in minutes, seconds and hours.		
	Describe how long a day is in hours, how long a week is in days, how long a month is in weeks and how long a year is in months.		
	Interpret a calendar for the year and make statements such as 'My birthday is three weeks before Easter'.		
	Tell which of the o'clock and half past times is the next to occur and draw a clock face to show these times.		
	Identify rectangles, squares, circles and triangles in the classroom and in the outdoor area and say what is the same and different about the shapes.		
	Sort a collection of 3-D shapes and name them correctly (cuboids, cubes, pyramids and spheres).		
	Identify things that are to the right, to the left, above and underneath.		
	Describe things which have made half, quarter and three-quarter turns in degrees.		
	Choose the correct coins and notes to pay for an item up to £10 and explain why I have chosen them.		
	Make up my own sequence, extend it and describe the rule I am following.		
	Write a series of instructions to another pupil to walk to a place using the turns either left or right.		

I can	Maths – Year 2 (emerging)	☺	Date
Number and Place Value	Count forward in steps of 2, 10 and 5 from any number up to 100.		
	Count backward in steps of 2, 10 and 5 from any number near to 100.		
	Partition two-digit numbers (tens, ones) in different ways.		
	Say a number which is 10 more than any number up to 100.		
	Say a number which is 10 less than any number up to 100.		
	Read and write numbers to at least 50 in numerals and in words.		
	Choose the larger number out of 28 and 64 and place the correct sign (<, >) between 8 and 32.		
+ and -	Work out addition facts like 20 + 70 by using number facts such as 2 + 7.		
	Use subtraction facts like 50 - 30 by using number facts such as 5 - 3.		
	Add a two-digit number and ones and a two-digit number and tens up to 50 in my head.		
	Take away a one digit number from a two-digit number and a two digit number from a two-digit number up to 50 in my head.		
	Show that adding up two numbers can be done in any order.		
	Show that taking away cannot be done in any order.		
	Solve one-step addition problems involving numbers, measures and money (up to £10).		
	Solve one-step subtraction problems involving numbers, measures and money (up to £10).		
x and ÷	Answer quickly times table and division facts for the 2, 5 and 10 multiplication tables.		
	Say which numbers are even and which are odd.		
	Explain that x 2 is doubling and ÷ by 2 is halving.		
	Show that multiplication of two numbers can be done in any order.		

I can	Maths – Year 2 (emerging)	☺	Date
	Show that division of two numbers cannot be done in any order.		
	Using equipment to help, solve one-step multiplication and division problems such as 'Jon has 5 bags of apples. There are 4 apples in each bag. How many apples does he have altogether?'		
Fractions	Calculate ¼ and $^1/_2$ of numbers and lengths up to 100.		
	Calculate ¼ and ½ of a shape.		
	Calculate simple fractions.		
	Count in halves up to 10.		
Measures	Select a ruler marked in centimetres to measure the length of a pencil and interpret the scale to read the length.		
	Use symbols for pounds and pence.		
	Add amounts up to £10 and work out the change from £1.		
	Make different amounts of money using the correct coins.		
	Tell the time to quarter past and to.		
	With support, identify that there are 5 minutes between each number on a clock face for the minute hand, to compare time intervals.		
Shape	Name and describe 2-D shapes by the number of sides and symmetry in a vertical line.		
	Draw a line of symmetry on a drawing of a square.		
	Name and describe 3-D shapes, including the number of edges, corners and faces.		
	Find and name 2-D shapes on the surface of 3-D shapes.		
Statistics	Arrange combinations of mathematical objects in patterns.		
	Make a tally chart to show how many children are in each class in my school.		
	Use data to solve a problem such as 'How many people choose blue as their favourite colour'.		

I can	Maths – Year 2 (expected)	☺	Date
Number and Place Value	Count forward in steps of 2, 3, 10 and 5 from any number up to 100.		
	Count backward in steps of 2, 3, 10 and 5 from any number near to 100.		
	Order the numbers 13, 31, 3 and 30 and place the correct sign (<, > or =) in statements such as between 34 and 17 and between 45 and 34.		
	Partition numbers (tens, ones) and use this to solve missing number problems.		
	Read and write numbers to at least 100 in numerals and in words.		
+ and -	Mentally add two numbers that have tens and units up to 100.		
	Mentally add three single digit numbers.		
	Check my answers to missing number problems by using the inverse.		
	Solve simple addition and subtraction word problems up to 100.		
	Add two numbers that have tens and units using the column method with no carrying.		
	Subtract two numbers that have tens and units using the column method and no exchanging.		
x and ÷	Write multiplication statements for x2, x5, and x10 using the multiplication and equals signs.		
	Write division statements for x2, x5, and x10 using the division and equals signs.		
	Solve one-step multiplication problems using apparatus if required.		
	Solve one-step division problems using apparatus if required.		
Fractions	Explain how two quarters is the same as one half.		
	Calculate one third and one quarter of numbers up to 100.		
	Count in quarters up to 10.		

I can	Maths – Year 2 (expected)	☺	Date
Measures	Estimate and measure length and height, mass, temperature and capacity to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.		
	Read the scale on a watering can that contains 15 litres of water.		
	Understand 0˚C and 100˚C and estimate the outside room temperature.		
	Tell and write the time to five minutes, and draw the hands on a clock face to show these times.		
	Work out the time between 'five past' and '20 past' an hour and know that it is shorter than from 'quarter to' until 'ten past' an hour.		
	Solve problems involving money such as 'I buy a pencil for 20p and a ruler for 45p. What change do I get from £1?'		
	Make different amounts of money using the correct coins.		
Shape	Name and describe 2-D shapes, by the number of sides, right angles and symmetry.		
	Name and describe 3-D shapes, by the number of edges, corners, faces and right angles.		
	Make different nets for cubes and cuboids.		
	Make my own symmetrical shapes by drawing lines using a ruler.		
	Identify that a rectangle has line symmetry but a triangle may not have line symmetry.		
	Describe the amount of turn using right angles for quarter, half and three quarter turns (clockwise and anti-clockwise), and movement in a straight line.		
Statistics	Make a tally chart and a pictogram to show how many children are in each class in my school.		
	Make a block diagram and ask and answer questions about it.		
	Ask and answer questions about the information in a simple table.		
	Use data to solve a problem such as 'How many more people choose blue than yellow as their favourite colour'.		

I can	Maths – Year 2 (exceeding)	☺	Date
Number and Place Value	Count forward in steps of 2, 3, 10 and 5 from any number up to 150.		
	Count forward in steps of 4 from 0 to 40.		
	Count backward in steps of 2, 3, 10 and 5 from any number near to 150.		
	Order at least five numbers both increasing and decreasing from 0 up to 100 using <, > and =.		
	Partition numbers (hundreds, tens, ones) and use this to solve missing number problems.		
	Read and write numbers to at least 150 in numerals and in words.		
+ and -	Mentally add two numbers that have tens and units up to 150.		
	Mentally add four single digit numbers.		
	Consistently check my answers to missing number problems by using the inverse.		
	Solve simple addition and subtraction word problems up to 150.		
	Add four numbers that have tens and units using the column method with no carrying.		
	Subtract three numbers that have tens and units using the column method and no exchanging.		
x and ÷	Write division statements for x2, x3, x5, and x10 using the division and equals signs.		
	Write multiplication statements for x2, x3, x5, and x10 using the multiplication and equals signs.		
	Solve one-step multiplication and division problems on paper and can make up questions that need to use multiplication or division in context.		
Fractions	Explain how four quarters is the same as one whole.		
	Calculate one third and one quarter of numbers up to 150.		
	Count in quarters up to 20.		

I can	Maths – Year 2 (exceeding)	☺	Date
Measures	Read scales on a wide range of measuring instruments and interpret the display beyond 100 to measure grams and millilitres.		
	Describe freezing and boiling in terms of temperature and explain the healthy temperature for a human being.		
	Tell and write the time to the minute, and show the time by drawing the hands on a clock face and writing the time on a digital clock face.		
	Work out time intervals for times given using multiples of 5 minutes and check my answer.		
	Make up money problems involving giving change when several items are purchased.		
	Make different amounts of money using the correct coins.		
Shape	Name, draw and describe 2-D shapes, by the number of sides, right angles and symmetry.		
	Name and describe 3-D shapes, by the number of edges, corners, faces and right angles and explain what makes them different to 2-d shapes.		
	Draw symmetrical shapes and illustrate the line of symmetry using a ruler.		
	Solve problems involving the amount of turn using right angles for quarter, half and three quarter turns (clockwise and anti-clockwise).		
Statistics	Choose the best way of representing data about the number of children in each class in school and explain why I have chosen it.		
	Make a block diagram and explain how I have created it.		
	Ask and answer questions about the information in a complex table.		
	Use data to solve a problem such as 'How many more people choose blue than yellow as their favourite colour' and can explain my answer.		

I can	Maths – Year 3 (emerging)	✓	Date
Numbers Place Value	Count from 0 in multiples of 4, 50 and 100.		
	Work out ten more than 23 or ten more than 125.		
	Calculate the value of each digit in a 3-digit number by partitioning in different ways.		
	Read and write numbers to at least 500 in numerals and words.		
	Compare and order numbers up to 500 using =, > , <.		
	Round 18 to the nearest 10 with a supporting number line.		
	Solve number problems such as 'I have 156 plastic cubes and give away 10 of them. How many do I have left?'		
Addition Subtraction	Mentally add and subtract a 3-digit number with ones, tens and hundreds such as 273 – 2.		
	Add two 2 digit numbers using the column method with 'carrying' using multi-base apparatus.		
	Subtract two 2 digit numbers using the column method with exchanging using multi-base apparatus.		
	Check the answer to 19 + 8 = 27 by working out 27 – 8 = 19 or by realising that 19 is close to 20 and 8 is close to 10 so the answer should be close to 30.		
	Solve missing number addition and subtraction problems such as 'I am thinking of a number. I subtract 13 and I get one more than 6. What is my number?		
	Solve more complex addition and subtraction problems such as 'You have four cards with the digits 1, 2, 3 and 4 on them, one digit per card. Arrange them to make two, two digit numbers so that the sum of them is as large as possible. A clue is that one of the numbers could be 42.'		
x and ÷	Answer multiplication and division facts for the 2, 3, 4, 5, 10, 11 tables very quickly.		
	Multiply a 2-digit number by 2, 3, 4, 5 using a simple formal grid method. Jottings used to support.		
	Divide a 2-digit number by 2, 3, 4, 5 using a formal method such as chunking. Jottings used to support.		
	Solve problems involving multiplication and division such as 'Gita has two pencils. Mary has three times as many pencils as Gita. How many pencils does Mary have?'		
	Work out that 2 x 8 x 5 by changing it to 2 x 5 x 8 = 10 x 8 = 80, with prompting.		

I can	Maths – Year 3 (emerging)	✓	Date
Fractions	Count up and down in tenths, e.g. I can continue the sequence 1/10, 3/10, 5/10 for two more terms with prompting.		
	Make tenths from dividing an object into 10 equal parts such as dividing a cake into 10 equal pieces and identifying four of them as four tenths.		
	Compare and order unit fractions such as identifying the larger of 1/3 and 1/5 with supporting diagrams.		
	Arrange a set of 12 counters into six groups of two counters each and select, with prompting, 1/6 of them.		
	Arrange a set of 12 counters into six groups of two counters each and select, with prompting, 3/6 of them.		
Measures	Add and subtract amounts of money up to £10.		
	Give change from £1.		
	Interpret the quarter hours on an analogue clock using Roman numerals.		
	Write o'clock in analogue time in a digital format such as three o'clock written as 03:00.		
	Measure lengths, mass and volume of different objects and find their totals and differences, e.g. which of these three pencils is the longest?		
	Measure the perimeter of a 2-D shape such as a rectangular picture, with support.		
	Say the relationship between all units of measurement.		
	Say the number of seconds in a minute, days in each month, year and leap year.		
Shape	Draw and name 2-D shapes such as a rectangle with sides of length 7cm and 5cm using a ruler.		
	Identify objects that are approximately the same as spheres and cylinders, with prompting.		
	Make 3-D shapes using modelling materials such as a cube using more than one type of modelling material.		
	Identify right angles; recognise that 2 right angles make a half-turn and four make a complete turn.		
	Say whether angles are greater or less than a right angle.		
	Predict the next shape in a repeating pattern.		
	Program a screen turtle, such as LOGO, to trace out a path, with prompts.		
Statistics	Interpret data using bar charts with simple scales e.g. 2, 5, 10 units.		
	Interpret data using pictograms with simple scales e.g. 2, 5, 10 units.		
	Solve one-step and two-step questions using information in scaled bar charts and pictograms.		

I can	Maths – Year 3 (expected)	✓	Date
Number	Read, and write numbers to at least 1000 in numerals and words.		
	Count from 0 – 96 in 8s.		
	Compare and order numbers up to 1000 using =, > and <.		
	Round a whole number up to 100 to the nearest 10.		
	Find 10 ten less than 372 or 100 more than 604.		
	Arrange three digit cards such as 3, 4 and 7, to make the largest possible number and can justify my choice of 743 using the language of hundreds, tens and units.		
	Solve number problems like 'A path is 750 cm long. It is paved with slabs of length 50 cm. How many slabs are needed?		
Addition and Subtraction	Add numbers with up to 3-digits, using the column method with carrying and exchanging.		
	Subtract numbers with up to 3-digits, using the column method with carrying and exchanging.		
	Estimate the answer to a calculation.		
	Check the answer to 217 + 48 = 265 by working out 265 – 48 = 217 or by rounding the numbers to 200 + 50 = 250. I can check the answer to 217 – 48 by rounding to 200 – 50 = 150.		
	Solve missing number addition and subtraction problems such as 'I am thinking of a number. I subtract 14 and add 5. I get 91. What is my number?		
	Solve more complex addition and subtraction problems such as 'You have four cards with the digits 2, 4, 7 and 8 on them, one digit per card. Arrange them to make two, two digit numbers so that the sum of them is as large as possible'.		
	Mentally add and subtract a 3-digit number with ones, tens and hundreds such as 283 – 40.		
x and ÷	Multiply a 2-digit number by a single digit (27 x 3) using a formal method such as the grid method.		
	Divide a 2-digit number by a single digit (81 ÷ 3) using a formal method such as chunking.		
	Answer multiplication and division facts for the 2, 3, 4, 5, 8, 10, 11 times tables very quickly.		
	Solve problems, including missing number problems.		
	Solve problems involving multiplication and division such as 'Fred has five goldfish and Jake has four times as many. How many goldfish does Jake have?'		
	Work out that 6 x 3 x 5 by changing it to 6 x 5 x 3 = 30 x 3 = 90.		

I can	Maths – Year 3 (expected)	✓	Date
Fractions	Draw a 2 by 4 rectangle and demonstrate that 2/8 is equivalent to ¼ and that 4/8 is equivalent to ½.		
	Add and subtract fractions with the same denominator up to one whole e.g. 2/9 + 8/9 = 10/9 and 10/9 – 8/9 = 2/9.		
	Continue the sequence of tenths, 1/10, 4/10, 7/10 for five more terms.		
	Solve fraction problems such as 'I have 12 counters. ¼ of them are blue, 1/3 are yellow and the rest are green. How many are green?		
	Arrange a set of 24 counters into equal groups and select 1/6 of them, recording my selection as a fraction.		
	Arrange a set of 24 counters into equal groups and select 4/6 of them, recording my selection as a fraction.		
	Place 1/3 and 5/7 at an appropriate place on a number line.		
Measures	Add and subtract amounts of money up to £100.		
	Give change from £10.		
	Tell and write the 12-hour and 24-hour time using Roman numerals.		
	Write any analogue time in a digital format.		
	Read time to the nearest minute and use a.m./p.m., morning, afternoon, noon and midnight.		
	Calculate how long events or tasks will take such as 'There are three films on television this evening. Which is the shortest one?'		
	Solve measure problems such as 'How much longer is my pencil than Toby's pencil?		
	Measure the perimeter of a rectangle such as a book or a picture.		
Shape	Draw horizontal, vertical, perpendicular and parallel lines and identify them in the classroom environment.		
	Know a right angle has 90° and a straight angle has 180°.		
	Sort a set of angles according to whether they are greater than or less than a right angle.		
	Use a compass to draw a circle with a radius up to 10cm.		
	Draw a parallelogram with sides of 7cm and 5 cm using a ruler and describe its properties including angles.		
	Identify objects that are approximately the same as known 3D shapes and describe their properties.		
	Predict the next shape in a pattern or sequence involving rotation or reflection.		
	Program a screen turtle, such as LOGO, to trace out a path.		
Statistics	Construct tables to represent information and then represent it in a bar chart.		
	Solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in tables.		

I can	Maths – Year 3 (exceeding)	✓	Date
Number and Place Value	Read, and write numbers to at least 1500 in numerals and words.		
	Count from 0 – 96 in 4s and 8s.		
	Compare and order numbers up to 1500 using =, > and <.		
	Explain why 28 rounds to 30 and 23 rounds to 20 to the nearest 10.		
	Work out 20 more than 186 or 300 less than 902.		
	Arrange three digit cards such as 4, 5 and 8, to make the number closest to 500 and can justify my choice using the language of place value.		
	Solve number problems like ''I have 362 plastic cubes and boxes that will hold 50, 20, 8 or 4 at a times. What is the fewest number of boxes I need to box all of them?'		
Addition and Subtraction	Add numbers with up to 4-digits, using the column method with carrying and exchanging.		
	Subtract numbers with up to 4-digits, using the column method with carrying and exchanging.		
	Estimate the answer to the nearest whole number.		
	Check the answer to 217 + 48 = 265, selecting from a range of checking strategies for the most appropriate one or by rounding the numbers, 200 + 50 = 250. I can check the answer to 217 – 48 by rounding to 200 – 50 = 150 and predict whether the estimate will be an over estimate or an under estimate.		
	Solve missing number addition and subtraction problems such as 'I am thinking of a number. I subtract 27 and add 13. I get 124. What is my number?		
	Solve more complex addition and subtraction problems such as 'You have six cards with the digits 2, 3, 4, 6, 7 and 8 on them, one digit per card. Arrange them to make three, two digit numbers so that the sum of them is as near to 100 as possible'.		
	Mentally add and subtract a 3-digit number with ones, tens and hundreds and missing numbers such as 384 = 171 + ?		
x and ÷	Begin to multiply a 2-digit number by a 2 digit number using a formal method such as the grid method.		
	Divide a 2-digit number by a single digit (81 ÷ 3) using a formal method such as chunking and explain how my method works and extend to more digits.		
	Answer multiplication and division facts for the 2, 3, 4, 5, 6, 7, 8, 10, 11 times tables very quickly.		
	Solve more complex problems missing number problems.		
	Solve problems involving multiplication and division such as 'A fish weights 50g. Another fish weighs eight times as much. How much does the larger fish weigh?'		
	Work out that 60 ÷ 3 by changing it to 6 ÷ 3 x 10 = 2 x 10 = 20.		

I can	Maths – Year 3 (exceeding)	✓	Date
Fractions	Begin to understand how to use a decimal point e.g. 3/10 = 0.3 and the column after the decimal point is called tenths.		
	Add and subtract fractions with the same denominator up to one whole e.g. 2/9 + 8/9 = 10/9 and 10/9 – 8/9 = 2/9. I realise that 10/9 is greater than one and can suggest ways to record this.		
	Find trios of fractions that add up to a whole.		
	Devise fraction problems such as 'I have 24 counters. 1/3 of them are blue, 1/6 are red and 1/8 are green. The rest are yellow. How many are yellow?		
	Identify what types of fraction can be made with a set of 24 counters, comparing ¾ and 5/6 using the counters.		
	Place any fraction in an appropriate position on a number line.		
Measures	Add and subtract amounts of money up to £150.		
	Give change from £15.		
	Tell and write the 12-hour and 24-hour time using Roman numerals and translate onto a clock face.		
	Read time to the nearest minute and use a.m./p.m., morning, afternoon, noon and midnight and find the equivalent 24 hour time for p.m. times.		
	Calculate how long events or tasks will take such as 'There are three films on television this evening. Which ones do I have time to watch between finishing my meal and going to bed?'		
	Solve measure problems such as 'Arrange these containers in order of capacity by eye, then check your order.'		
	Measure the length and width of a rectangle and work out the perimeter.		
Shape	Explain why horizontal and vertical lines are always perpendicular and pairs of vertical lines are always parallel.		
	Explain why a triangle cannot have more than one angle that is greater than a right angle.		
	Use a compass to draw a circle with a radius up to 10cm and draw a right angle on the circle.		
	Draw a diagram of any rectilinear (made up of right angles) shape with given dimensions.		
	Identify objects that are approximately the same as known 3D shapes and explain why they might be that shape.		
	Program a screen turtle, such as LOGO, to trace out a path and complete a known shape.		
Statistics	Design a table for collecting data and construct an appropriate graph to represent it, justifying my strategy.		
	Solve increasingly complex one-step and two-step questions collecting the appropriate data to answer questions about how many pets, and of what sort, children have in my class.		

I can	Maths – Year 4 (emerging)	✓	Date
Number and Place Value	Count in multiples of 6s using my knowledge of counting up in 3s and can begin the sequences for 7, 9, and 25.		
	Calculate the value of each digit in a 4-digit number by partitioning in different ways.		
	Chant the sequence 1000, 2000, 3000…. and 3, 2, 1, 0, -1, -2 ….with prompting.		
	Order numbers up to 5000 using =, > and <.		
	Read Roman numerals to 10.		
	Calculate 1000 more or less than a number.		
	Identify the thousands digit when presented with a four digit number.		
Addition Subtraction	Add up to 4-digits using the column method such as 6078 + 1934.		
	Subtract up to 4-digits using the column method such as 6078 – 1934.		
	Mentally add and subtract pairs of three-digit and four-digit numbers.		
	Make a sensible estimate and check my answer to 68 + 23 by rounding 68 to 70 and 23 to 20 and working out 70 + 20 = 90.		
	Solve 2-step problems such as 'Sarah buys a pen for 40p and a ruler for 80p. How much change does she get from £2?		
x and ÷	Answer multiplication and division facts for the 2, 3, 4, 5, 6, 7, 8, 10 and 11 tables very quickly.		
	Multiply and divide by 0 and 1.		
	Multiply a 3-digit number by a single digit using the grid method.		
	Divide a 2-digit number by 2, 3, 4, 5, 6, 7 and 8 using the short division method.		
	Work out the factor pairs and use them in mental calculations, e.g. work out 20 x 6 by working out 20 = 10 x 2, then 10 x 12 = 120.		
Fractions	Count up and down in hundredths.		
	Make hundredths when dividing an object by a hundred and dividing tenths by ten.		
	Calculate quantities, including non-unit fractions where the answer is a whole number.		

I can	Maths – Year 4 (emerging)	✓	Date
	Calculate the equivalent decimal of any tenths and hundredths number.		
	Find the effect of dividing a one or two digit number by 10 or 100.		
	Calculate the value of the digits in numbers with units, tenths and hundredths.		
	Order numbers with the same number of decimal places up to one decimal place.		
Measures	Convert km to m and kg to g, e.g. converting 3 kg to 3000g by multiplying 3 by 1000 with prompting.		
	Tell the time using 12 and 24-hour clocks and change one to the other such as writing quarter past three in the afternoon as 3:15 pm and, with prompting, as 15:15.		
	Solve problems converting hours to minutes; minutes to seconds; years to months; weeks to days.		
Shape	Identify lines of symmetry in 2-D shapes drawn in different orientations.		
	Complete a simple symmetrical figure so that it has one line of symmetry.		
	Describe positions on a 2-D grid as co-ordinates in the first quadrant such as (3,5) as 3 represents the distance moved 'along' and 5 the distance moved 'up' with prompts.		
	Plot specified points and draw sides to complete a given polygon with prompting.		
	Describe translations to the left / right and up / down.		
Statistics	Solve a problem by collecting data, presenting it in a bar chart and interpreting it.		
	Solve a problem by collecting data, presenting it in a line graph and interpreting it.		
	Answer questions from a time series graph such as ' What was the temperature at noon on the 12th October?		

I can	Maths – Year 4 (expected)	✓	Date
Number and Place Value	Decide whether a number is a multiple of 6 by counting up in 6s or a multiple of 7, 9 or 25 by counting up in 7s, 9s or 25s.		
	Convert a number expressed in Roman Numerals to 100 and explain why they are difficult to calculate with.		
	Count in 1000s and backwards through zero and understand that -2 is greater than -3.		
	Order numbers up to 10,000 using =, > and <.		
	Count in multiples of 9 and 25.		
	Round any numbers up to 10,000 to the nearest 10, 100 or 1000.		
	Arrange four digit cards showing 3, 4, 6 and 7, to make the smallest possible number and can justify my choice of 3467 using the language of thousands, hundreds, tens and units.		
+ and -	Solve 2-step problems by deciding which operation to use and why, e.g. 'Sarah buys 5 pens at 99p each. How much change does she get from £5?		
	Make a sensible estimate and check the answer using the inverse operation, e.g. 478 - 133 by working out 345 + 133.		
x and ÷	Answer multiplication and division facts for multiplication tables up to 12x12 very quickly.		
	Multiply 2-digit and 3-digit numbers by a 1-digit number using the formal written grid method.		
	Divide a 3 digit number by a single digit using a formal written layout such as chunking.		
	Work out the factor pairs and use them in mental calculations, e.g. work out 12 x 7 x 5 by rearranging mentally to get 6 x 2 x 5 x 7 = 6 x 70 = 420.		
	Say all the square numbers.		
	Solve more complex problems such as 'A stick is 8cm long. Another stick is 12 times longer. How long is the second stick? Or 'You have four cards each with a different number on it. How many different two digit numbers can you make?		
	Understand what a prime number is.		

I can	Maths – Year 4 (expected)	✓	Date
	Calculate the prime factors and work out the factors within any number up to 144		
Fractions	Calculate decimal equivalents to $^1/_4$, $^1/_2$ and $^3/_4$. and identify 7/10 as 0.7 and 7/100 as 0.07.		
	Round decimals with one decimal place to the nearest whole number such as 3.2 to 3 and 3.5 to 4 and explain the rule.		
	Order numbers with the same number of decimal places up to one decimal place.		
	Calculate equivalent fractions of a given fraction including tenths and hundredths.		
	Add and subtract fractions with the same denominator.		
Measures	Calculate the perimeter of a rectilinear figure in knowing the length and width without counting up all the sides.		
	Draw a rectangle on a square grid and count the squares within it to measure its area.		
	Solve simple measure and money problems involving fractions and decimals to two decimal places such as 'I have £12. I spend 2/5 of it on lunch and need to save 1/3 of it for the bus fare home. Do I have enough to spend £2.40 on an ice cream?		
Shape	Sort 2-D shapes, including types of quadrilaterals and triangles, based on their properties and sizes into a Carroll diagram.		
	Identify acute and obtuse angles and compare and order angles up to two right angles by size.		
	Complete a simple symmetrical figure so that it has two lines of symmetry.		
Statistics	Solve a problem by collecting data, presenting it in a bar chart and interpreting it.		
	Solve a problem by collecting data, presenting it in a line graph and interpreting it.		
	Answer questions from a time series graph such as ' How much warmer was it at noon on the 12th October than it was at 8am?		

I can	Maths – Year 4 (exceeding)	✓	Date
Number and Place Value	Read Roman numerals to 1000 and explain why Roman Numerals are not a place value system and how zero makes a place value system work.		
	Count backwards in steps of 1 from 20 through 0 to -20 and select the greater amount from a list of negative numbers.		
	Order numbers up to 20,000 using =, > and <.		
	Count in multiples of 6, 7, 9, 11 and 25 and identify whether numbers are in more than one of the sequences.		
	Round any numbers up to 20,000 to the nearest 1000.		
+ and -	Consistently solve 2-step problems by deciding which operation to use and why, e.g. 'Sarah buys five pens at £1.25 each, three pencils at 38p each and a ruler for 85p. How much change does she get from £10?		
	Make a sensible estimate and check the answer using the inverse operation, e.g. 478 - 133 by rounding or inverse operation and explain why I chose that method.		
x and ÷	Consistently answer multiplication and division facts for multiplication tables up to 12x12 very quickly.		
	Begin to multiply 2-digit by 2-digit numbers using the formal written grid method.		
	Divide a 3 digit number by a single digit using a formal written layout such as chunking and relate it to formal methods of long division.		
	Consistently solve more complex problems such as 'Three cakes are shared equally between 10 children. How much do they each have?		
	Calculate the prime factors and work out the factors within any number up to 200.		
Fractions	Write a whole number as a fraction.		
	Recognise and use thousandths.		
	Recognise that decimals can be written as fractions.		

I can	Maths – Year 4 (exceeding)	✓	Date
	Correctly round up or down to one decimal place.		
	Recognise and understand the percent symbol (%).		
	Solve problems to 2 decimal places such as 'In the long jump Pavan jumped 1.75m in his first jump whilst his second jump was 2.23m. What was the difference between his two jumps?		
Measures	Measure the perimeter of a rectangle using a ruler.		
	Understand the difference between metric and imperial systems of measurement.		
	Calculate with different measures such as ' How many 150 ml glasses of orange juice can I pour from four litre cartons?		
Shape	Describe equilateral triangles.		
	Understand what an irregular polygon is.		
	Identify 3-D shapes from 2-D representations.		
	Complete a simple symmetrical figure so that it has more than two lines of symmetry.		
	Place a set of angles in ascending order of size, and describe how I know that one angle is larger than another.		
Statistics	Enter information into a simple table.		
	Extract information from tables and compare to find the best deal.		
	Understand what a pie chart is.		
	Answer questions from a time series graph such as ' What was the temperature at noon on the 12th October? And then make up a series of questions about a given graph.		

I can	Maths – Year 5 (emerging)	✓	Date
Number and Place Value	Count forwards and backwards in steps of 100 and 1,000 from any number up to 1,000,000.		
	Calculate the value of each digit up to 1,000,000 by partitioning in different ways.		
	Count forwards and backwards with positive and negative whole numbers through zero.		
	Interpret negative numbers in contexts such as the temperature.		
	Solve number problems and practical problems that involve all these aspects such as 'What is the term-to-term rule for the sequence 5, 9, 13 …. and write down the next two terms.'		
	Interpret the numbers from 1 to 20 using Roman Numerals, and interpret the year 1900 written using Roman Numerals.		
+ and -	Add and subtract more than 4-digit numbers using the column method.		
	Mentally add and subtract large numbers such as 15650 – 450 = 15200.		
	Use rounding to check answers to calculations e.g. 9172 + 123 – 3987 by rounding to 9000 + 100 – 4000 = 5100 with some prompting.		
	Solve multi-step problems in contexts, such as 'Dan has £5. He spends £1.80 on a magazine. He needs to keep £1.40 for the bus fare home. Can he afford a sandwich costing £1.90?'		
x and ÷	Explain that a prime number such as 11 has only two factors and that a composite number such as 12 has prime factors that are 2 and 3.		
	Calculate whether a number up to 100 is prime.		
	Multiply and divide numbers mentally.		
	Multiply and divide whole numbers and those involving decimals by 10, 100 or 1000.		
	Multiply 3-digit by 2-digit numbers and divide a 3-digit number by a single digit using efficient formal methods.		
	Solve problems involving all 4 rules and a combination of these.		

I can	Maths – Year 5 (emerging)	✓	Date
Fractions	Explain that a whole number can be written as a fraction.		
	Multiply a proper fraction by 10.		
	Multiply a mixed number by 10.		
	Recognise mixed numbers and improper fractions and convert from one form to the other.		
	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.		
	Read and write decimal numbers as fractions e.g. 0.7 = $^{7}/_{10}$ up to one decimal place.		
	Round decimals with two decimal places to the nearest whole number and to one decimal place.		
	Read, write, order and compare numbers with up to three decimal places.		
	Solve problems involving numbers up to three decimal places.		
	Recognise and understand the percent symbol (%).		
	Write percentages as a fraction with a denominator of a hundred, and as a decimal.		
Measures	Convert between different units of measure (km/m; m/cm; cm/mm; kg/g; l/ml).		
	Solve problems involving converting between units of time.		
	Solve problems involving addition and subtraction of units of measure using decimal notation.		
	Recognise and estimate volume using cubes and capacity using water.		
Shape	Identify 3-D shapes, including cubes and cuboids, from 2-D representations.		
	Know angles are measured in degrees; estimate and measure them and draw a given angle, writing its size in degrees.		
	Describe equilateral, isosceles, right angle and scalene triangles.		
Statistics	Complete, read and interpret information in tables, including timetables.		
	Construct my own table from given information.		
	Construct a bar chart and decide upon the scale.		

I can	Maths – Year 5 (expected)	✓	Date
Number and Place Value	Count forwards and backwards in steps of 1,000 and 100,000 from any number up to 1,000,000.		
	Round any number up to 1,000,000 to the nearest 100,000, 10,000, 1000, 100 and 10.		
	Read Roman numerals to 1000(M) and recognise years written in Roman numerals.		
	Solve number problems and practical problems that involve all these aspects such as 'What is the term-to-term rule for the sequence 14.5, 13, 11.5 …. and write down the next two terms.'		
	Form a number with up to six digit cards and write it in words.		
+ and -	Mentally add and subtract large numbers such as 23712 – 1610 = 22102.		
	Add and subtract any 1000s number from any 5-digit number.		
	Use rounding to check answers to calculations e.g. 56713 - 3156 + 954 by rounding to 60000 - 3000 + 1000 = 58000.		
x and ÷	Identify multiples and be able to find all factor pairs from a number below 50 and list the factors of 40 as 1, 40; 2, 20; 4, 10; 5, 8.		
	Recognise and use squared and cubed numbers and the correct notation such as $6^2 = 6 \times 6 = 36$ and $2^3 = 2 \times 2 \times 2 = 8$.		
	Use the square root sign √.		
	Solve problems where larger numbers are used by decomposing them into their factors.		
	Multiply numbers up to 4-digits by a 1-digit and 2-digit number using an efficient written method such as the grid method.		
	Divide numbers up to 4-digits by a 1-digit number using the short division written method.		
	Solve problems including scaling by simple fractions and problems involving simple rates such as 'Two rulers cost 60p. How much do 5 rulers cost?'		
Fractions	Solve problems which require knowing percentage and decimal equivalents of $^1/_2$, $^1/_4$, $^1/_5$, $^2/_5$, $^4/_5$ and those with a denominator of a multiple of 10 or 25.		
	Mentally add and subtract tenths and mixed numbers with tenths.		

I can	Maths – Year 5 (expected)	✓	Date
	Add and subtract decimals up to 3 decimal places.		
	Compare and order fractions whose denominators are all multiples of the same number such as identifying the smaller out of 2/3 and 13/18.		
	Add and subtract fractions with the same denominator and related fractions; e.g. 3/4 + 5/12.; write mathematical statements >1 as a mixed number.		
	Multiply proper fractions and mixed numbers by whole numbers up to 10, supported by materials and diagrams.		
Measures	Use the equivalences of 2.5cm = 1 inch, 2.2 pounds = 1kg and 1.8 pints = 1 litre to convert between metric and imperial units.		
	Measure and calculate the perimeter of composite rectilinear shapes in cm and m. E.g. Finding the perimeter of an 'L' shape given the dimensions.		
	Calculate and compare the areas of squares and rectangles using square centimetres and square metres and estimate the area of irregular shapes.		
Shape	Draw squares, rectangles and all triangles using given dimensions (to the nearest millimetre) and angles such as 48° with a protractor.		
	State and use the properties of a rectangle (including squares) to deduce related facts.		
	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.		
	Identify multiples of 90°; angles at a point on a straight line and ½ a turn (total 180°); angles at a point and one whole turn (total 360°); reflex angles and compare different angles.		
	Identify, describe and represent the position of a shape following a reflection or translation in all four quadrants, using the appropriate language, and know that the shape has not changed.		
Statistics	Solve problems using information presented in line graphs.		
	Interpret information stored in a pie chart.		

I can	Maths – Year 5 (exceeding)	✓	Date
Number and Place Value	Read, write, order and compare numbers to 1,000,000.		
	Perform mental calculations, including mixed operations.		
	Solve problems such as 'Does the sequence -11, -6, -1 pass through 91.		
	Write different years in Roman numerals and explain why calculation with large numbers is difficult with Roman Numerals.		
+ and -	Add and subtract 2 positive and negative numbers.		
	Add and subtract any 10,000s number from any 6-digit number.		
	Solve addition and subtraction multi-step problems in contexts such as 'It is 560km from Penzance to Manchester. Ali drives 315km and notes that he is 112km from Birmingham. How far is it from Birmingham to Manchester?		
x and ÷	Solve problems involving factors and multiples such as 'Numbers are co-prime if they have no factors in common. Find all the numbers below 30 that are co-prime with 36. What do you notice? Can you explain?'		
	Sort numbers below 200 into a Venn diagram with two sets: square numbers and cube numbers.		
	Interpret 3^4 as 3 x 3 x 3 x 3 = 81 and extend the idea to higher powers.		
	Calculate simple square roots and express them using the square root sign √.		
	Consistently solve problems where larger numbers are used by decomposing them into their factors.		
	Begin to multiply numbers up to 4-digits by a 2-digit whole number using an efficient written method such as the grid method.		
	Divide numbers up to 4-digits by a 1-digit number using the short division written method and extend it to dividng decimals.		
	Solve increasingly complex problems including scaling by simple fractions and problems involving simple rates. And make up my own problems such as 'Helen cycles 40km in two hours. How far would she cycle in 20 minutes at the same speed?'		

I can	Maths – Year 5 (exceeding)	✓	Date
Fractions	Solve problems which require knowing percentage and decimal equivalents such as 'Which is more: 20% off or 0.75 of the full amount?'		
	Compare and order fractions including fractions <1.		
	Begin to calculate percentages of whole numbers and measures.		
	Begin to use simple formulae expressed in words.		
	Understand that a fraction can be converted to a decimal by dividing.		
	Multiply proper fractions and mixed numbers by whole numbers up to 10.		
Measures	Convert metric to imperial units and imperial to metric.		
	Measure and calculate the perimeter of composite rectilinear shapes in mm.		
	Solve problems by converting measurements of length, mass, volume and time from a smaller unit to a larger unit and vice versa, using decimal notation to two decimal places.		
Shape	Recognise and build simple 3-D shapes.		
	Identify the radius of a circle.		
	Understand that co-ordinates can be expressed on a grid.		
	Identify quadrilaterals such as a parallelogram a trapezium.		
	Plot some vertices of a polygon given to me and then plot the remainder to complete the polygon, including all the possible solutions.		
Statistics	Understand that there are different types of averages (mean, median and mode).		
	Understand the terms of probability e.g. certain, impossible.		
	Complete tables and devise timetables, deducing what is needed from the available information.		

I can	Maths – Year 6 (emerging)	✓	Date
Numbers and Place Value	Read, write, order and compare numbers up to 10,000,000.		
	Calculate the value of each digit by partitioning.		
	Round any whole number to a required degree of accuracy.		
+ - x ÷	Multiply numbers up to 4 digits by a 2-digit whole number using an efficient written method.		
	Divide numbers up to 4 digits by a 2-digit whole number up to 20 using the efficient written method and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context.		
	Identify common factors, common multiples and revise prime numbers, square numbers and square roots.		
	Add and subtract 2 positive and negative numbers e.g. -3 – 4 = -7.		
Fractions	Identify the value of each digit to three decimal places.		
	Multiply and divide numbers by 10, 100 and 1000 where the answers are up to 3 decimal places.		
	Convert a fraction to a decimal by dividing.		
	Use common factors to simplify fractions.		
	Use common multiples to express fractions in the same denomination.		
	Compare and order fractions including fractions>1.		
	Calculate percentages of whole numbers or measures such as 15% of 360.		
	Use equivalences between simple fractions, decimals and percentages in different contexts.		

I can	Maths – Year 6 (emerging)	✓	Date
Algebra	Generate and describe linear number sequences describing how to continue a growing sequence of shapes of T-shirts made with 5 squares, then 8 squares, then 11 squares.		
	Express missing number problems algebraically such as 'If x + 3 = 17, work out x.'		
	Use simple formulae expressed in words such as working out the area of a rectangle by using the formula area = length x width.		
	Recognise when it is necessary to use the formulae for area and volume of shapes.		
Measures	Solve problems by converting measurements of length, mass, volume and time from a smaller unit to a larger unit and vice versa, using decimal notation to three decimal places.		
	Use the relationship that 5 miles = 8 km to convert multiples of 5 miles to km and multiples of 8km to miles.		
Shape	Recognise, describe and build simple 3-D shapes including making nets.		
	Recognise parallel and perpendicular planes.		
	Illustrate and name parts of circles, including radius, diameter and circumference.		
	Use a protractor to measure the angle of 2D shapes e.g. quadrilaterals.		
	Describe positions on the full co-ordinates grid (all four quadrants).		
	Create shapes by joining up the co-ordinates.		
Statistics	Calculate and interpret the mean, median and mode.		
	Understand the terms of probability e.g. certain, impossible.		
	Solve problems using the probability terms.		

I can	Maths – Year 6 (expected)	✓	Date
+ - x ÷	Add and subtract using negative numbers.		
	Perform mental calculations, including with mixed operations and large numbers.		
	Divide numbers up to 4-digits by a 2-digit whole number up to 20 using the efficient written method and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context.		
	Solve multi-step problems involving the 4 rules and use estimations to check answers to calculations.		
	Use my knowledge of the order of operations to carry out calculations involving the 4 operations.		
Fractions, Decimals and %	Add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions.		
	Multiply simple pairs of proper fractions writing the answer in its simplest form (e.g. 1/4 x 1/2) Divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6).		
	Multiply 1-digit numbers with up to 2 decimal places by whole numbers, e.g. 3.78 x 27.		
	Use written division methods in cases where the answer has up to 2 decimal places.		
	Solve problems which require answers to be rounded to specified degrees of accuracy.		
	Find a percentage of any given number.		
Ratio and Proportion	Solve problems involving the relative sizes of 2 quantities such as converting a recipe for 4 people to a recipe for 12 people.		
	Solve problems involving unequal sharing and grouping e.g. 'Two-thirds of the class are girls and there are 18 girls. How many boys are there in the class?'		

I can	Maths – Year 6 (expected)	✓	Date
	Solve problems involving similar shapes where the scale factor is known or can be found.		
	Solve simple ratio and proportion problems.		
	Reduce a given ratio to its lowest terms.		
Algebra	Find pairs of numbers that satisfy number sentences involving two unknowns e.g. finding the values for a and b such that 2a + b = 24.		
	Work out all possibilities of combinations of two variables e.g. 'Two numbers have a sum of 20 and a product that is an even number. What could the numbers be?'		
Measures	Recognise that shapes with the same areas can have different perimeters and vice versa.		
	Calculate the area of parallelograms and triangles and be able to use the correct formulae.		
	Calculate the volume of cubes and cuboids using centimetre cubed and cubic metres and extending to other units, such as mm cubed and km cubed.		
Shape	Classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.		
	Find unknown angles where they meet at a point and are on a straight line and are vertically opposite.		
	Find missing angles in a parallelogram, rhombus and trapezium by working out diagonally opposite angles.		
	Draw and translate simple shapes on the co-ordinate plane, reflect them in the axes and rotate around a point.		
Statistics	Interpret and construct pie charts and use these to solve problems using my knowledge of angles, fractions and percentages.		
	Interpret and construct line graphs and use these to solve problems answering questions about changes over time.		

I can	Maths – Year 6 (exceeding)	✓	Date
+ - x ÷	Begin to understand and use place value for decimals, measures and integers.		
	Understand the ≠, ≤ and ≥ symbols.		
	Use the four operations applied to integers, decimals and proper fractions.		
	Begin to understand cube roots.		
Fractions, Decimals and %	Understand the concept of terminating decimals and their corresponding fractions.		
	Recognise percentages as hundredths and apply this to solving problems.		
	Begin to round numbers accurately to a higher number of decimal places.		
	Apply formal methods of short and long division to calculations which have answers of several decimal places.		
	Solve problems which require answers to be rounded to specified degrees of accuracy.		
	Find a percentage of any given number.		
Ratio and Proportion	Solve more complex ratio and proportion problems.		
	Reduce a given ratio to its lowest terms.		
	Identify rectangles which are enlargements of each other by comparing corresponding sides to check if they are in the same ratio.		
	Begin to understand concepts, such as randomness and fairness, in relation to probability.		
	Solve problems involving the calculation of percentages such as increasing £24 by 15%.		

I can	Maths – Year 6 (exceeding)	✓	Date
Algebra	Find trios of numbers that satisfy number sentences involving two unknowns e.g. what is 2a +3b + 4c if a = 2 and b = 3 and c = 4.		
	Work out all possibilities of combinations of three variables.		
	Begin to understand the language of algebra such as formulae, translation, interpretation and simplification.		
Measures	Calculate the areas of irregular shapes.		
	Consistently calculate the area of parallelograms and triangles and be able to use the correct formulae.		
	Consistently calculate the volume of cubes and cuboids using centimetre cubed and cubic metres and extending to other units, such as mm cubed and km cubed.		
Shape	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in irregular polygons.		
	Consistently find unknown angles where they meet at a point and are on a straight line and are vertically opposite.		
	Consistently find missing angles in a parallelogram, rhombus and trapezium by working out diagonally opposite angles.		
	Draw and translate more complicated shapes on the co-ordinate plane, reflect them in the axes and rotate around a point.		
	Relate radius, diameter and circumference to everyday instances of circles such as the circumference of a bicycle wheel equals the distance moved when the wheel goes round once.		
	Draw shapes on 4 quadrant grids using coordinates.		
	Begin to understand Pythagoras' Theorem.		
Statistics	Interpret and construct more complicated pie charts and use these to solve problems using my knowledge of angles, fractions and percentages.		
	Interpret and construct line graphs and use these to solve more complex problems.		