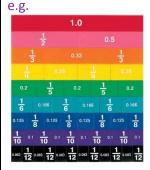
# **Godmanchester Community Academy Maths Progression**

Year 4		
Place Value	4 operations (+, -, x, ÷)	Fractions
Count in multiples of: 2, 3, 4, 5, 6, 7, 8, 9, 10, 25, 50, 100, and 1000	Using column written method (more detail on methods in calculation policy):	Count up and down in hundredths.
	add and subtract numbers with up to four-digits	Know that hundredths are a result of dividing an
Count backwards through 0 to include negative numbers	e.g. 3425 + 2723 =, 7362 – 174 =, 4487 – 134 =	object into one hundred equal parts or by dividing tenths by ten
e.g. 4, 3, 2, 1, 0, -1, -2, -3	Know multiplication and division facts multiplication tables up to 12x 12	Recognise and use diagrams to show families of
Read Roman numerals to 100 (I to C)	e.g. $6 \times 7 = 42$ , $7 \times 6 = 42$ and $42 \div 6 = 7$ , $42 \div 7 = 6$	common equivalent fractions
Find 1000 more and less than a given number.	Solve addition and subtraction two step problems in	1/2
That I be on the conditions of	context, deciding which operation (+, -, x, ÷) to use.	1/3 1/3 1/3
Know the value of each digit in a 4 digit number		1/4 1/4 1/4 1/4
thousands (th), hundreds (h), tens (t) and ones (o)	Recognise and use factor pairs	1/4 1/4 1/4
e.g. 826 has 8 hundreds, 2 tens and 6 ones The value of the 8 is 800, the value of the 2 is 20 and	e.g. 5 x 3 = 15 (factor x factor = product) factor pairs of 12 are: 1 x 12, 2 x 6, 3 x 4	1/6 1/6 1/6 1/6 1/6
the value of the 6 is 6.	factor pairs of 12 are: 1 x 12, 2 x 6, 3 x 4	1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8
	Multiply two-digit and three-digit numbers by a one-	1/12 1/12 1/12 1/12 1/12 1/12 1/12 1/12
Compare and order numbers beyond 1000	digit number	
Round any number to the nearest 10, 100 and 1000	(More details on calculation policy) e.g 35 x 7 = , 372 x 8 =	Add and subtract fractions with the same denominator
Nound any number to the hearest 10, 100 and 1000	e.g 33 x 7 - , 372 x 8 -	e.g.
	Solve correspondence problems	$\frac{3}{2} + \frac{4}{2} = \frac{7}{2}$
	Please note this builds on Y3 scaling problem.	5 5 5
	e.g.	
	An ice-cream van has 4 flavours of ice-cream and 2 choices of	
	toppings.   Ice-cream flavour Toppings   Vanilla Sauce	$\frac{11}{1} - \frac{4}{1} = \frac{7}{1}$
	Chocolate Flake Strawberry Banana	6 6 6
	How many different combinations of ice-cream and toppings can be made?	

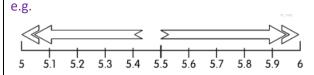
#### **Decimals**

Recognise and write decimal equivalents of any number of tenths or hundredths

Recognise and write decimal equivalents to  $\frac{1}{4}$   $\frac{1}{2}$   $\frac{3}{4}$ 



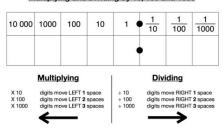
Round decimals with one decimal place to the nearest whole number



Compare numbers with the same number of decimal places up to 2 decimal places.

Find the effect of dividing a one-or-two-digit number by 10 or 100 and identify the value of the number in the answer as ones, tenths and hundredths e.g.

#### Multiplying and Dividing by 10, 100 and 1000



#### Measurement - Measures and Time

Convert between different units of measure

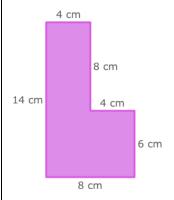
- 2 kilometres is equal to 2000 metres
- 3 hours is equivalent to 180 minutes

Read, write and convert time between analogue and digit, and 12-hour and 24-hour clocks

Solve problems that involve converting hours to minutes, minutes to seconds, years to months, weeks to weeks

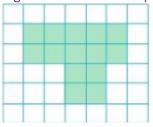
Measure and calculate the perimeter of a rectilinear figure in centimetres(cm) and metres(m)

e.g. The perimeter of this rectilinear shape is 4cm+14cm+8cm+6cm+4cm+8cm = 44cm



Find the area of a rectilinear shape by counting the squares.

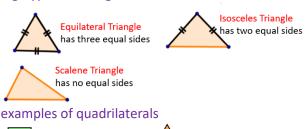
e.g. The area of this shape is 14cm<sup>2</sup>

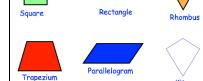


### Geometry – shapes and angles

Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and size.

e.g. types of triangles



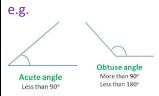


Identify lines of symmetry in 2d shapes presented in different orientations

Complete a simple symmetric figure with respect to a specific line of symmetry

e.g. Complete the shapes according to the line of symmetry

Identify acute and obtuse angles

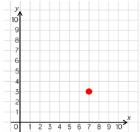


Compare and order acute, right and obtuse angles by size.

# Geometry – Position and Direction positions on a 2d grid as co-ordinate

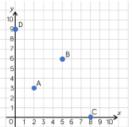
Describe positions on a 2d grid as co-ordinates in the first quadrant (The second third and forth quadrants are introduced in Year 5)

e.g. The point is plotted at 7,3



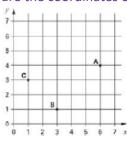
Describe movements between positions as translations to the left/right, and up/down

e.g. Point A has been translated up 3 and right 3.



Plot specified points and draw sides to complete a given polygon.

e.g. A B and C are three corners of a rectangle. What are the coordinates of the forth corner?

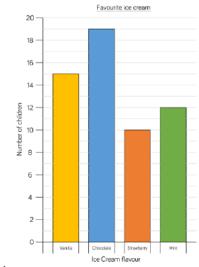


## **Statistics**

Understand and make discrete and continuous data, including bar charts and time graphs

e.g.

Bar Charts



Time Graphs

