Multiplication and division vocabulary				
Term	Definition	Example		
factor a number that divides exactly		factors of 12 =		
common	into another number factors of two numbers that	1, 2, 3, 4, 6, 12 common factors of 8 and		
factor	are the same	12 = 1, 2, 4		
prime number	a number with only 2 factors: 1 and itself	1 2 3 5 7 11 13 17 19		
composite	a number with more than	12		
number	two factors	(it has 6 factors)		
prime factor	a factor that is prime	prime factors of 12 = 2, 3		
multiple	a number in another number's times table	multiples of 9 = 9, 18, 27, 36		
common	multiples of two numbers	common multiples of 4		
multiple	that are the same	and 6 = 12, 24		
square	the result when a number	25 (5 ² = 5x5)		
numbers	has been multiplied by itself	49 (7 ² = 7x7)		
cube	the result when a number has	$8(2^3 = 2x2x2)$		
numbers	been multiplied by itself 3 times	27 (3 ³ = 3x3x3)		

Fractions, decimals & percentages			<u>es</u>	<u>Angles</u>				
	¹ / ₁₀₀	0.01	1%	÷100			full turn	360°
	¹ / ₂₀	0.05	5%	÷ 20			half turn	180°
	¹ / ₁₀	0.1	10%	÷10			right angle	90°
	$\frac{1}{5}$	0.2	20%	÷5			acute angle	< 90°
	1/4	0.25	25%	÷ 4			obtuse angle	> 90°
				· ·			reflex angle	>180°
	1/2	0.5	50%	÷2			angles on a straight line	180°
	3⁄4	0.75	75%	÷4, x3			angles inside a triangle	180°
	1	1	100%	÷1			angles inside a quadrilateral	360°

	<u>Shape vocabulary</u>		parallelogram trapezium rhomb
perimeter = measure a	around the edge (circumfere	nce = perimeter of a circle)	AREA
horizontal line	parallel lines		is the amount of space inside a 2D sh
<u> </u>		radius	usually measured in cm ² or m ² .
			Area of a triangle
vertical line	perpendicular lines	diameter (= radius x 2)	= (base x height) ÷ 2
	(at right angles)		Area of a parallelogram
	(ut light diigies)		= base x height
-	L		(Heiaht = perpendicular heiaht)

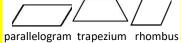
<u>Roman numerals</u>					
1	I	100	С		
5	V	500	D		
10	Х	1000	Μ		
50	L				

YEAR 6 MATHS KNOWLEDGE ORGANISER

2D shapes

Name	No. of sides				
quadrilateral	4				
pentagon	5				
hexagon	6				
heptagon	7				
octagon	8				
nonagon	9				
decagon	10				
polygon = shape with straight sides					
regular = all sides	/angles the same				
irregular = sides/a	angles not same				
Types of triangle					
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. A				
	$\land \land$				
scalene equila	ateral isosceles				

Types of quadrilateral



AREA e amount of space inside a 2D shape usually measured in cm² or m². Area of a triangle = (base x height) ÷ 2 Area of a parallelogram = base x height

		INICASULEIII		<u>onversions</u>
Month	Day	s	Γ	1 cent imetre
January	31			1 metre
February	28 (2	29 in leap year)		1 kilo metre
March	31			
April	30			1 mile
May	31			1 kilometre
June	30			
July	31			1 kilo gram
August	31			
September	30			1 litre
October	31			
November	30			Co-c
December	31			Read co-ordin
1 year = 365	days (:	≈ 52 weeks)		(horizontal) f
Leap year = 3	66 da	ys	()	vertical). E.g. (3,-
			ĽĽ,	
<u>3D shape</u>	<u>es</u>	square-bas		triangular
		pyramid		based pyran
faces				

(≈ 52 weeks) ays	Read co-c (horizon	<u>Co-ordinates</u> Read co-ordinates along the x axis (horizontal) first, then the y axis rtical). E.g. (3,-4) = go right 3, down 4		
square-base pyramid	ed triang		triangular prism	
5	4		5	
8	6		9 6	
5	4			

10mm 100cm 1,000 m

1.6 km

0.625 (⁵/₈) mile

1,000 grams



(the flat sides)

edges

vertices

(the points where

the edges meet)

Volume = the amo

cm³ or m³

Volume of a cuboid = length x width x height

The mean

The mean is a type of average. To find the mean, add up all the numbers and divide by how many there are. E.g. the mean of 4, 5, 3, 4 is 4. (Because 4 + 5 + 3 + 4 = 16, and $16 \div 4 = 4$)

Measurement conversions