Date	Focus	Signature

You can learn your times tables from other times tables facts.

For example, if you know $3 \times 9 = 27$ then you also know $9 \times 3 = 27$

So if you've learned all times tables except the nines, you will already know each answer except 9×9

Practise the times tables below and you'll know them all in no time.

Multiplication

X	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

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Multiplication and division vocabulary

Term	Definition	Example		
factor	a number that divides exactly	factors of 12 =		
Tactor	into another number	1, 2, 3, 4, 6, 12		
common	factors of two numbers that	common factors of 8 and		
factor	are the same	12 = 1, 2, 4		
prime	a number with only 2 factors:	2 2 5 7 11 12 17 10		
number	1 and itself	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 =		
prime factor	a factor triat is prime	2, 3		
multiple	a number in another	multiples of 9 =		
muniple	number's times table	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

1/100	0.01	1%	÷ 100
1/20	0.05	5%	÷ 20
1/10	0.1	10%	÷ 10
¹ / ₅	0.2	20%	÷ 5
1/4	0.25	25%	÷ 4
1/2	0.5	50%	÷ 2
3/4	0.75	75%	÷ 4, x3
1	1	100%	÷ 1

Angles

full turn	360°
half turn	180°
right angle	90°
acute angle	< 90°
obtuse angle	> 90°
reflex angle	>180°
angles on a straight line	180°
angles inside a triangle	180°
angles inside a quadrilateral	360°

Shape vocabulary

perimeter = measure around the edge (circumference = perimeter of a circle)

horizontal line

parallel lines

vertical line

perpendicular lines (at right angles)



Roman numerals

1	ı	100	С
5	V	500	D
10	Χ	1000	M
50	L		

YEAR 6 MATHS KNOWLEDGE ORGANISER

2D shapes

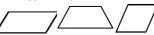
Name	No. of sides
quadrilateral	4
pentagon	5
hexagon	6
heptagon	7
octagon	8
nonagon	9
decagon	10

polygon = shape with straight sides regular = all sides/angles the same irregular = sides/angles **not** same

Types of triangle



Types of quadrilateral



parallelogram trapezium rhombus

AREA

is the 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

(Heiaht = perpendicular heiaht)

Measurement conversions

Month	Days			
January	31			
February	28 (29 in leap year)			
March	31			
April	30			
May	31			
June	30			
July	31			
August	31			
September	30			
October	31			
November	30			
December	31			
1 year = 365 days (≈ 52 weeks)				

1 year = 365 days (≈ 52 weeks)
Leap year = 366 days

1 cent imetre	10mm		
1 metre	100cm		
1 kilometre	1,000 m		
1 mile	1.6 km		
1 kilometre	0.625 (⁵ / ₈) mile		
1 kilo gram	1,000 grams		
1 litre	1,000 millilitres		

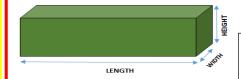
Co-ordinates

Read co-ordinates along the x axis (horizontal) first, then the y axis (vertical). E.g. (3,-4) = go right 3, down 4.

3D Shape Revision

	pyramid	Cuboid	pyramid	Cube	prism
Edges	8	12	6	12	9
Faces (the flat sides)	5	6	4	6	5
Vertices (the point where the edges meet)	5	8	4	8	6

Volume = the amount of space a 3D shape takes up, usually measured in 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 $16 \div 4 = 4$)