



YEAR 3 MATHS KNOWLEDGE ORGANISER

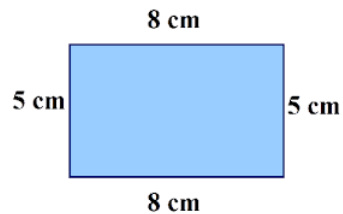
2D SHAPES

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

Perimeter

Perimeter is the distance around the outside of a shape.



Addition and Subtraction

Add and subtract numbers mentally, including:

- a three-digit number and 1s
- a three-digit number and 10s
- a three-digit number and 100s

Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.

Angles

Full turn	360°
Half turn	180°
Right angle	90°
Acute angle	< 90°
Obtuse angle	> 90°

Multiplication and division

Multiplication and division facts for 3, 4 and 8 multiplication table.

Write and calculate multiplication questions up to two-digit number times a one-digit number from mental to formal written methods.

Roman Numbers

1 = I	6 = VI
2 = II.	7 = VII
3 = III.	8 = VIII
4 = IV.	9 = IX
5 = V.	10 = X

Shape Vocabulary

Types of lines

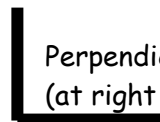


Horizontal line



Vertical line

Parallel lines



Perpendicular lines
(at right angles)

Time

Tell and write the time from an analogue clock.

Read time with increased accuracy.

Compare time in terms of seconds, minutes and hours.

Use vocabulary such as: morning, afternoon, evening, noon, midnight.



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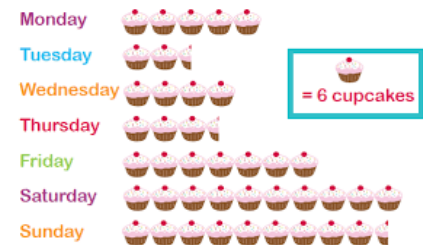
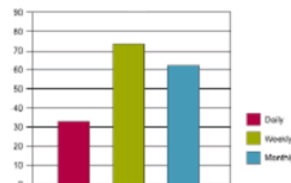
Fractions

Count up and down in tenths - recognise that tenths arise from dividing an object into 10 equal part.
Add and subtract fractions with the same denominator within one whole.

$$\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$$

Data

Interpret and represent data using bar charts, pictograms and table.



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)	
Leap year = 366 days	

Length	
1 centimetre	10 mm
1 metre	100 cm
1 kilometre	1,000 m
Mass	
1 kilogram	1,000 grams
Capacity	
1 litre	1,000 millilitres
Time	
1 minute	60 seconds
2 minutes	120 seconds
3 minutes	180 seconds

3D Shapes	Square-based pyramids	Triangular – based pyramids	Triangular prism
Faces (the flat sides)	5	4	5
Edges	8	6	9
Vertices (the points where the edges meet)	5	4	6

