Autumn 2 Maths Knowledge Organiser

Vocabulary

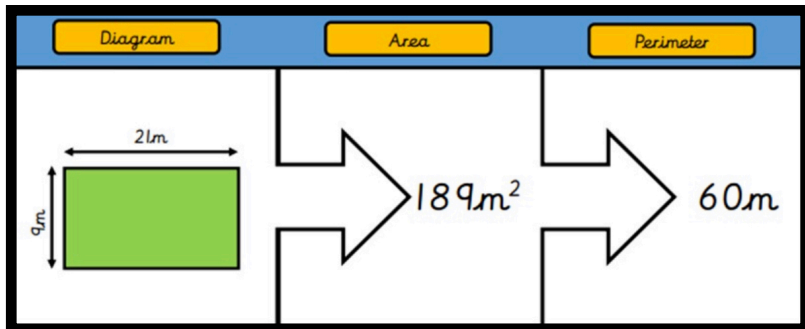| Vocabulary	Definition
metre	a unit of length in the metric system
kilometre	a metric unit of measurement equal to 1,000 metres (approximately 0.62 miles)
length	the measurement or extent of something from end to end; the greater of two or the greatest of three dimensions of an object
width	the measurement or extent of something from side to side; the lesser of two or the least of three dimensions of a body
dimensions	a measurable extent such as length, breadth, depth, or height.
irregular	not even or balanced in shape or arrangement
regular	arranged in a constant pattern, especially with the same space between individual instances

Addition and Subtraction

add
total
plus
sum
more
altogether
difference
subtract
less
minus
take away
Mentally, orally
Column addition
Column subtraction
exchange
estimate
inverse operation

Add 4-digit numbers

No exchange

$$5162$$
$$+3427$$
$$8589$$

Starting with the ones, add each column in turn.

One exchange

$$5162$$
$$+3497$$
$$8659$$
$$1$$

Starting with the ones, add each column in turn. When adding 6 tens + 9 tens = 15 tens = 1 hundred + 5 tens. Place 1 hundred under the hundreds answer and 5 tens in the answer.

Multiple exchanges

$$5864$$
$$+3497$$
$$9361$$
$$11\ 1$$

Starting with the ones, add each column in turn. Exchange tens, hundreds and/ or thousands as required.

Subtract 4-digit numbers

No exchange

$$5789$$
$$-3421$$
$$2368$$

Starting with the ones, subtract each column in turn.

One exchange

$$5\overset{6\ 1}{7}49$$
$$-3471$$
$$2278$$

Starting with the ones, subtract each column in turn. When subtracting 4 tens -7 tens, exchange 1 hundred to make: 14 tens – 7 tens = 7 tens

Multiple exchanges

$$5\overset{6131}{7}42$$
$$-3476$$
$$2266$$

Starting with the ones, subtract each column in turn. Exchange tens, hundreds and/ or thousands as required.

Perimeter and Area

Diagram	Area	Perimeter

21m, 9m, $189m^2$, $60m$

Fractions

$\frac{1}{3}$ $\frac{2}{4}$ $\frac{17}{28}$ $\frac{5}{9}$ $\frac{52}{106}$