

Year 4, Term 1 Knowledge Organiser for Place Value and Geometry.

Place Value	Geometry
--------------------	-----------------

Manipulatives and strategies	Manipulatives and strategies
-------------------------------------	-------------------------------------

1000s | 100s | 10s | 1s

3 | 2 | 4 | 5

three thousand, two hundred and forty-five
3 thousands, 2 hundreds, 4 tens and 5 ones

In order from smallest to largest
2987, 6894, 6080

4261, 4406, 4540

Stop and look. What do you notice?

5 or more - round up
4 or less - round down

Round to the nearest ten
 $6538 \rightarrow 6540$

Round to the nearest hundred
 $6538 \rightarrow 6500$

Round to the nearest thousand
 $6538 \rightarrow 7000$

1000 less than 3245 is 2245
1000 more than 3245 is 4245

thousands digit round multiple positive negative

Year 4 Term 1

Equilateral Triangles
3 equal sides

Isosceles Triangles
2 equal sides

Scalene Triangles
all sides different

Exhaustion
manipulating
shape
into
adjacent
quadrilateral
triangles

Quadrilaterals are shapes with 4 straight sides

parallelogram - opposite sides parallel

rectangles - 4 right angles

rhombus - 4 equal sides

squares

Trapezium - exactly one pair of parallel sides

Kites - 2 pairs of equal adjacent sides

Angles can be compared by the amount of turn.

Vocabulary and meanings	Vocabulary and meanings
--------------------------------	--------------------------------

Digit/numerals	A single number to represent values in mathematics
zero	Holds a place in a number or represents nothing.
ones	1-digit number = 1 - 9
tens	2-digit numbers = 10 - 99
hundreds	3-digit numbers = 100 - 999
thousands	4-digit numbers = 1000 - 9999
value	How much each digit/numeral is representing.
exchange	Changing a larger value number into a smaller value number. For example, 1 ten = 10 ones so to change 1 ten to get 10 ones is exchanging

angle	The space between two intersecting lines or the space in the corner/vertices of a shape.
acute	An acute angle is smaller than a right angle (smaller than 90 degrees).
obtuse	An obtuse angle is larger than a right angle (larger than 90 degrees) but smaller than two right angles (smaller than 180 degrees).
right angle	A 90-degree angle or a quarter turn.

columns	Vertical lines to the left and right to separate number values.
---------	---

1000s	100s	10s	1s
-------	------	-----	----

Place Value	
Vocabulary and meanings	

position	Where a number is placed on a number line.	round	Adjusting a number up or down. Used mostly for estimating.
increase	A number gets bigger in value; 8 10 12 14	negative	Numbers less than zero, with a minus sign. 0 -1 -2 -3
decrease	A number gets smaller in value; 12 10 8 6		