Year 6 Place Value Knowledge Organiser

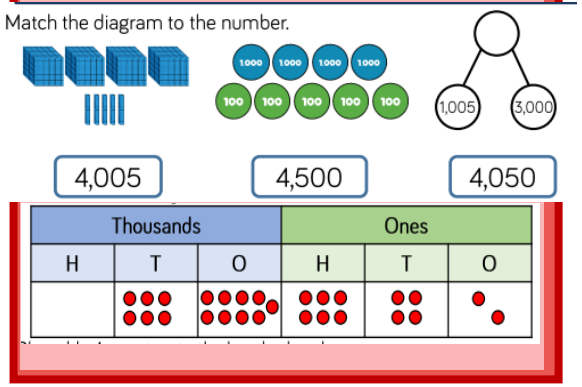
Star Vocabulary

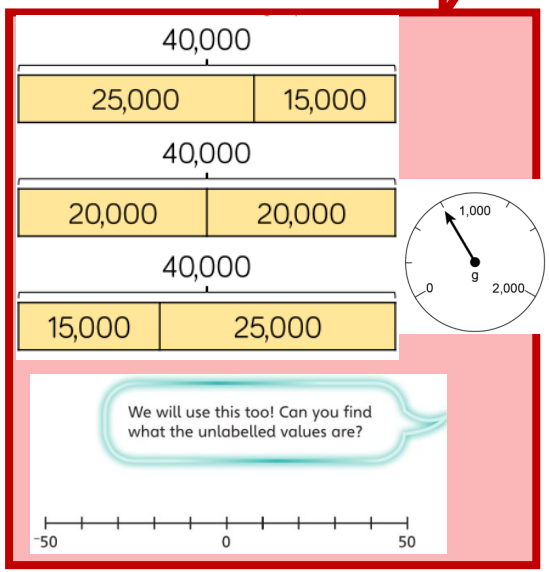
Place value	Place value is the value of each digit in a number.
Digits	Any of the numerals from 0 to 9
Value	The worth of something
Numeral	A number
Integer	A number without a fractional component
Ascending	Numbers ordered from smallest to largest
Descending	Numbers ordered from largest to smallest
Factorising	break a number down into smaller numbers that, multiplied together, give you that original number.

Recognise the place value of each digit up to 2 decimal places.

Recognise the place value of each digit up to 1 million including decimal.

Place value is the **value** of each digit in a number. For example, the 5 in 5,350,000 represents 10 hundred thousands or 5 million.





Sentence Stems

The value of _____is _____in this number.

I noticed that 10 hundred thousands are equivalent to _____.

Which multiple of 10 does ___sit between.

Misconceptions: Why?

I can have more than 9 of the same type of number e.g., 11 tens.

When adding 1000 to 2506 _____column changes.

When rounding to the nearest 1000 you must look at the thousands column.

Factual & Conceptual Fluency progression

- Addition and subtraction within 10.
  - Addition and subtraction across 10.
- Secure and maintain fluency in addition and subtraction within and across 10, through continued practice.
  - Recall the 10 and 5 multiplication tables, and corresponding division facts.
- Recall the 2, 4 and 8 multiplication tables, and corresponding division facts.
  - Recall the 3, 6 and 9 multiplication tables, and corresponding division facts.
  - Recall the 11 and 12 multiplication tables, and corresponding division facts.
- Recall the 7-multiplication table, and corresponding division facts.
  - Secure and maintain fluency in all multiplication tables, and corresponding division facts, through continued practice.