## Year 7 Maths - Autumn 2023

## Module 1 - Place Value \& Ordering

What do I need to be able to do?
By the end of this unit you should be able to: - Understand place vave and the number system incuding decimals

- Understand and use place vatue for decimals, integers and measures of any size
- Order number and use a number line for postive and negative integers, fractions and decimal:
- use the symbols $=, \neq, \leq, \geq$
- Work with terminating decimals and their corresponding fractions
- Round numbers to an appropriate accuracy
- Describe, interpret and compare data distributions using the median and range


## Keywords

approximate: To estimate a number, amount or total often using rounding of numbers to make them easier to calulate with
il Integer: a whole number that is positve or negative
II Interval between two points or values
|| Median: a measure of central tendency (middle, averace) found by putting all the data values in order and finding the midde
II value of the list
Il Negative: any number less than zero, written with a minus sign
Il Place holder: We use 0 as a place holder to show that there are none of a particular place in a number
Il Place value: The vave of a digit depending on its place in a number. hour decimal number system, each place is 10 times
Il bigger than the place to its right
Il Range: The difference between the largest and smalest numbers in a set
Il Significant figure: a digt that gives meaning to a number. The most significant digat (figure) in an integer is the number on Il the left. The most sianificant digt in a decimal fraction is the first non-zero number after the decimal point

## Integer Place Value



IIntervals on a number line


I Rounding to the nearest power of ten If the number is haffway between we 'round up. 5495 to the nearest $1000 \quad 5475$ to the nearest $100 \quad 5475$ to the nearest 10 | 1 | 5000 | i | 6000 | 5400 | 个 5500 | 5470 | $\uparrow$ |
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What is place value?


Writing and describing whole numbers


Using number lines


Place value for decimals

Rounding decimals

## Rounding whole numbers



