

Year 7 Knowledge Organiser -

Number and Place Value

Objectives

Understand and use place value

Order positive and negative integers, decimals and fractions

Round numbers to decimal places or significant figures

Use the symbols =, \neq , <, >, \leq , \geq

Know primes, LCM, HCZ, roots and powers

Use the four operations with decimals

Use the order of operations

Estimate, cancel and simplify calculations

Key Vocabulary

Multiple - found by multiplying any number by positive integers

Factor - integers that multiply together to get another number.

HCF - highest common factor (biggest factor two or more numbers share)

LCM - lowest common multiple (the first time the times table of two or more numbers match)

Prime - an integer with only 2 factors

Inverse - the opposite function

Approximate – to estimate a number, amount or total often using rounding of numbers to make them easier to calculate with

Indices / Powers - show how many times a number or letter has been multiplied by itself

Significant figure – A digit that gives meaning to a number. The most significant digit (figure) in an integer is the number on the left. The most significant digit in a decimal fraction is the first nonzero number after the decimal point



