



# Knowledge Organiser



## Number

### Year 5

### Multiplication & Division

We can now use our knowledge of column addition and subtraction and apply it to numbers with decimals. This is really useful when we add and subtract amounts of money.

#### Builds from Year 4:

- recall multiplication and division facts for multiplication tables up to  $12 \times 12$
- multiply and divide mentally
- factor pairs
- multiply two-digit and three-digit numbers by a one-digit number using formal written layout

#### This year:

#### Leads to Year 6:

- multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
- divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division,
- interpret remainders as whole number remainders, fractions, or by rounding
- divide numbers up to 4 digits by a two-digit number using the formal written method of short division
- interpret remainders according to the context
- identify common factors, common multiples and prime numbers

use their knowledge of the order of operations to carry out calculations involving the four operations

### Addition and Subtraction Methods

### Multi-Step Problems

### Mental Maths Strategies

## Key Vocabulary

multiply groups of lots of times divide share remainder factor multiply product prime square  
numbers cube numbers