Year 4, Term 3 Knowledge Organiser for Multiplication and Division and Addition and Subtraction.

| Multiplication and Division | | | Addition and Subtraction | |
|--|---|-------------|---|---|
| Manipulatives and strategies | | | Manipulatives and strategies | |
| 1 x 12 = 12 = 12 2 x 12 = 24 = 12 3 x 12 = 38 = 12 4 x 12 = 48 = 12 5 x 12 = 60 = 12 | If I know then I also know If the digits are the same then a 2-digit number is divisible by 11 An odd number multiplied by 11 gives an odd product. An odd product. An odd product. | 12 x 6 = 72 | 3543 + 2312 No regrouping 1000s 100s 10s 1s 3 5 4 3 + 2 3 1 2 5 8 5 5 3+2=5 3+4 1 = 5 5+3=8 3+2=5 3543 - 1216 Excharging tens 1000s 100s 10s 1s 3 5 3 4 3 1 2 3 1 2 5 3 5 4 3 2 3 1 2 5 3 5 4 3 1 2 1 6 2 3 2 7 If the ones digit in the minuend is less than the ones digit in the subtrahend, I need to exchange I ten for 1 ones. | |
| Vocabulary and meanings | | | Vocabulary and meanings | |
| Digit/numerals | A single number to represe | | ones | 1-digit number = 1 - 9 |
| zero | Holds a place in a number or represents nothing. | | tens | 2-digit numbers = 10 - 99 |
| odd | A number that is NOT divisible by 2. | | hundreds | 3-digit numbers = 100 - 999 |
| even | A number that IS divisible by 2. | | thousands | 4-digit numbers = 1000 - 9999 |
| factor | A number that times by another number for an answer (product). | | sum | The answer when adding numbers together. |
| product | The result (answer) when you multiply 2 numbers (factors) together. | | regroup (add) | When you regroup 10 in the ones column is 1 in the tens column. |
| multiple | A product (answer that is part of a times table (where the same number is repeatedly added). | | Exchange (subtract) | When you exchange a 10 from the tens column to 10 ones in the ones column. |
| divisible | Numbers that divide a number equally with no remainder. | | Minuend (subtract) | The number in a subtraction sentence from which we subtract another number. |
| commutative | When 2 numbers can be added or multiplied & the same answer will be found no matter what order the numbers are in. | | Subtrahend (subtract) | The number being subtracted from another number. |