**Division – Year Five**

**Essential Knowledge**



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| Term | Definition | Example |
| Equal groups of | Give one object to each group  |   |
| ÷ Divide, division | Dividing into equal groups – give one to each numbered group in turn. |  |
| Divided by | Repeated subtraction from the dividend to group into the divisor | 12 divided by 4 = 312 – 4 – 4 – 4 = 0 |
| Divided into | Sharing the dividend equally into the divisor |   |
| Remainder | The amount left over where one quantity cannot be exactly divided by another.10 ÷ 3 = 3 remainder 1. | 16 ÷ 5 = 3 R 1 |
| **Instructional Vocabulary** |
| Number facts,  | Number pairs, Number bonds |
| Greatest value | Least value |

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| Term | Definition | Example |
| Factor | In multiplication the numbers multiplied together are called factors | Factor x factor = product  6 x 7 = 42 |
| Quotient | In division the answer when a dividend is divided by the divisor the answer is the quotient |  42 ÷ 6 = 7 Quotient |
| Divisible by | When a number gives a whole number answer | 24 is divisible by 1, 2, 3, 4, 6, 8, 12, 24 |
| Inverse | The opposite or reverse of an operation. Division is the inverse of multiplication |  6 x 9 = 5454 ÷ 9 = 6 |
| Remainders as fractions or decimals | When a number does not divide evenly into another, the leftover can be expressed as a **remainder**, fraction, or **decimal** | Text  Description automatically generated3 and a half = 3.5 |
| **Instructional Vocabulary** |
| Calculate, work out, solve | Investigate, question |
| Answer, Check | Different missing number/s |

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| Division facts for all tables  | Division facts for 7 x table2 x table 8 x table 3 x table 9 x table4 x table 10 x table 5 x table 11 x table 6 x table 12 x table |  | Halve larger numbers and decimals  | 2674 ÷ 2 = 13370.34 ÷ 2 = 1774, 202 ÷ 2 = 37, 101 |
| Apply place vale to derive division facts | 8 ÷ 2 = 4 therefore 0.8 ÷ 2 = 0.449 ÷ 7 = 7 therefore 49,000 ÷ 7,000 = 7108 ÷ 12 = 9 therefore 10.8 ÷ 12 = 0.9 |  | Partition to divide mentally including decimals | A drawing of a person  Description automatically generated 7505 ÷ 5 = 1501 |
| Divisibility tests to 2, 3, 5, 6, 9, 10 | 2 Any even number (ending in 0,2,4,6,8) will divide equally by 23 Any number with a digit sum of a multiple of 3 5 Any number ending in 0 or 5 will divide equally by 56 Any number with a digit sum of a multiple of 3 and is even will divide equally by 69 Any number with a digit sum of a multiple of 9 and will divide equally by 910 Any number with ending in 0 is a multiple of 10 |  | Any number where last two digits are divisible by 4, will all divide by 4 | Example: is 45, 215 divisible by 4?Test: 15 ÷ 4 = 3 remanider 3 So 45,215 **is not** divisible by 4. Example: is 24,576 divisible by 4?Test: 76 ÷ 4 = 1976 divides equally by so it i**s** divisible by 4. |

