**Year 4 Key Knowledge**

These are very important facts that the children need to recall instantly, **with little to no thinking time required**. Keep working on these throughout the year.

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| **Number bonds to 10**

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| 0 + 10 = 1010 + 0 = 1010 – 10 = 010 – 0 = 101 + 9 = 109 + 1 = 1010 – 9 = 110 – 1 = 9 | 2 + 8 = 108 + 2 = 1010 – 8 = 210 – 2 = 83 + 7 = 107 + 3 = 1010 – 7 = 310 – 3 = 7 | 4 + 6 = 106 + 4 = 1010 – 6 = 410 – 4 = 65 + 5 = 1010 – 5 = 5 |

 | **Number bonds to 20**

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| 0 + 20 = 201 + 19 = 202 + 18 = 203 + 17 = 204 + 16 = 205 + 15 = 206 + 14 = 207 + 13 = 208 + 12 = 209 + 11 = 2010 + 10 = 20 | 20 + 0 = 2019 + 1 = 2018 + 2 = 2017 + 3 = 2016 + 4 = 2015 + 5 = 2014 + 6 = 2013 + 7 = 2012 + 8 = 2011 + 9 = 20 | 20 – 0 = 2020 – 1 = 1920 – 2 = 1820 – 3 = 1720 – 4 = 1620 – 5 = 1520 – 6 = 1420 – 7 = 1320 – 8 = 1220 – 9 = 1120 – 10 = 10 | 20 – 20 = 020 – 19 = 120 – 18 = 220 – 17 = 320 – 16 = 420 – 15 = 520 – 14 = 620 – 13 = 720 – 12 = 820 – 11 = 9 |

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| **Time Facts**There are 60 seconds in a minute.There are 60 minutes in an hour.There are 24 hours in a day.There are 7 days in a week.There are 12 months in a year.There are 365 ¼ days in a year.There are 366 days in a leap year. |

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| **Number of days in each month** |
| JanuaryFebruaryMarchAprilMayJune | 3128/2931303130 | JulyAugustSeptemberOctoberNovemberDecember | 313130313031 |

30 days has September, April, June and November. All the rest have 31 except for February which has 28 unless it is a leap year at 29.  |
| **Number bonds to 100**

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| 0 + 100 = 100100 + 0 = 100100 – 100 = 0100 – 90 = 1010 + 90 = 10090 + 10 = 100100 – 90 = 10100 – 10 = 90 | 20 + 80 = 10080 + 20 = 100100 – 80 = 20100 – 20 = 8030 + 70 = 10070 + 30 = 100100 – 70 = 30100 – 30 = 70 | 40 + 60 = 10060 + 40 = 100100 – 60 = 40100 – 40 = 6050 + 50= 100100 – 50 = 50 |

Also, all the corresponding facts up to 1000. E.G. 400 + 600 = 1000 | **Number bonds to 100 that are not multiplies of 10**These are a few examples.

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| 75 + 25 = 10025 + 75 = 100100 – 25 = 75100 – 75 = 25 | 37 + 63 = 10063 + 37 = 100100 – 63 = 37100 – 37 = 6348 + 52 = 10052 + 48 = 100100 – 52 = 48100 – 48 = 52 |

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| **Other number facts.** 4 lots of 25 = 1005 lots of 20 = 10010 lots of 10 in 100100 lots of 10 in 100010 lots of 100 in 100010 lots of 1000 in 10, 000 | **Multiplication help.**Double = x 2 Double, double = x 4Double, double and double = x 8Halve = divide by 2 etc.  |
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| Websites you can visit. * [Maths - Topmarks Search](https://www.topmarks.co.uk/Search.aspx?Subject=16)
* [Times tables worksheets printable - Math worksheets](https://www.timestables.co.uk/worksheets/)
* [Measurement - KS2 Maths - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/zcpnb9q) BBC Bitesize has a range of videos and activities linked to all primary topics.
* [Activities for 9-12 years | Words for Life](https://wordsforlife.org.uk/activities/filter/?age=9-12&activity=). Literacy activities
* <http://www.bbc.co.uk/bitesize/ks2/english/spelling_grammar/>
* <http://www.funbrain.com/grammar/>
* <http://learnenglishkids.britishcouncil.org/en/grammar>
* <http://resources.woodlands-junior.kent.sch.uk/interactive/literacy2.htm>
* <http://www.crickweb.co.uk/ks2literacy.html>
* <http://www.grammar-monster.com>
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