**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**   |  |  |  | | --- | --- | --- | | 0 + 10 = 10  10 + 0 = 10  10 – 10 = 0  10 – 0 = 10  1 + 9 = 10  9 + 1 = 10  10 – 9 = 1  10 – 1 = 9 | 2 + 8 = 10  8 + 2 = 10  10 – 8 = 2  10 – 2 = 8  3 + 7 = 10  7 + 3 = 10  10 – 7 = 3  10 – 3 = 7 | 4 + 6 = 10  6 + 4 = 10  10 – 6 = 4  10 – 4 = 6  5 + 5 = 10  10 – 5 = 5 | | **Number bonds to 20**   |  |  |  |  | | --- | --- | --- | --- | | 0 + 20 = 20  1 + 19 = 20  2 + 18 = 20  3 + 17 = 20  4 + 16 = 20  5 + 15 = 20  6 + 14 = 20  7 + 13 = 20  8 + 12 = 20  9 + 11 = 20  10 + 10 = 20 | 20 + 0 = 20  19 + 1 = 20  18 + 2 = 20  17 + 3 = 20  16 + 4 = 20  15 + 5 = 20  14 + 6 = 20  13 + 7 = 20  12 + 8 = 20  11 + 9 = 20 | 20 – 0 = 20  20 – 1 = 19  20 – 2 = 18  20 – 3 = 17  20 – 4 = 16  20 – 5 = 15  20 – 6 = 14  20 – 7 = 13  20 – 8 = 12  20 – 9 = 11  20 – 10 = 10 | 20 – 20 = 0  20 – 19 = 1  20 – 18 = 2  20 – 17 = 3  20 – 16 = 4  20 – 15 = 5  20 – 14 = 6  20 – 13 = 7  20 – 12 = 8  20 – 11 = 9 | | |
| **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. | |  |  |  |  | | --- | --- | --- | --- | | **Number of days in each month** | | | | | January  February  March  April  May  June | 31  28/29  31  30  31  30 | July  August  September  October  November  December | 31  31  30  31  30  31 |   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**   |  |  |  | | --- | --- | --- | | 0 + 100 = 100  100 + 0 = 100  100 – 100 = 0  100 – 90 = 10  10 + 90 = 100  90 + 10 = 100  100 – 90 = 10  100 – 10 = 90 | 20 + 80 = 100  80 + 20 = 100  100 – 80 = 20  100 – 20 = 80  30 + 70 = 100  70 + 30 = 100  100 – 70 = 30  100 – 30 = 70 | 40 + 60 = 100  60 + 40 = 100  100 – 60 = 40  100 – 40 = 60  50 + 50= 100  100 – 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.   |  |  | | --- | --- | | 75 + 25 = 100  25 + 75 = 100  100 – 25 = 75  100 – 75 = 25 | 37 + 63 = 100  63 + 37 = 100  100 – 63 = 37  100 – 37 = 63  48 + 52 = 100  52 + 48 = 100  100 – 52 = 48  100 – 48 = 52 | | |
| **Other number facts.**  4 lots of 25 = 100  5 lots of 20 = 100  10 lots of 10 in 100  100 lots of 10 in 1000  10 lots of 100 in 1000  10 lots of 1000 in 10, 000 | | **Multiplication help.**  Double = x 2  Double, double = x 4  Double, double and double = x 8  Halve = 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> | | |