

Mathematics Non-Negotiables (Minimum end of year expectations)

| | Rec | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|--------------------------------|---|--|---|---|---|--|--|
| Counting & ordering | <p>Count reliably to 20.</p> <p>Order numbers 1 – 20.</p> | <p>Count to & across 100, forwards & backwards from any number.</p> | <p>Compare & order numbers up to 100.</p> | <p>Compare & order numbers up to 1000.</p> | <p>Count backwards through zero to include negative numbers.</p> <p>Compare & order numbers beyond 1000.</p> <p>Compare & order numbers with 2 decimal places.</p> <p>Read Roman numerals to 100.</p> | <p>Count forwards & backward with positive & negative numbers through zero.</p> <p>Count forwards/backwards in steps of powers of 10 for any given number up to 1000000.</p> <p>Compare & order numbers with 3 decimal places.</p> <p>Read Roman numerals to 1000.</p> | <p>Compare & order numbers up to 10000000.</p> |
| Numbers & more/less | <p>Say 1 more/1 less to 20.</p> | <p>Read & write numbers to 20 in digits & words.</p> <p>Read & write numbers to 100 in digits.</p> <p>Say 1 more/1 less to 100</p> | <p>Read & write all numbers to 100 in digits & words.</p> <p>Say 10 more/less than any number to 100.</p> | <p>Read & write all numbers to 1000 in digits & words.</p> <p>Find 10 or 100 more/less than a given number.</p> | <p>Find 1000 more/less than a given number.</p> | | |

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|-----------------------------------|-----|--|--|--|---|--|--|
| Tables & multiples | | Count in multiples of 1, 2, 5 & 10. | Count in multiples of 2, 3 & 5 & 10 from any number up to 100. Recall & use multiplication & division facts for 2, 5 & 10 tables. | Count from 0 in multiples of 4, 8, 50 & 100. Recall & use multiplication & division facts for 3, 4, 8 tables. | Count in multiples of 6, 7, 9, 25 & 1000. Recall & use multiplication & division facts all tables to 12x12. | Identify all multiples & factors, including finding all factor pairs. Use known tables to derive other number facts. | Identify common factors, common multiples & prime numbers. |
| Bonds & Facts | | Know bonds to 10 by heart. Use bonds & subtraction facts to 20. | Recall & use +/- facts to 20. Derive & use related facts to 100. | | | Recall prime numbers up to 19. | |
| Place value & rounding | | | Recognise PV of any 2-digit number. | Recognise PV of any 3-digit number. | Recognise PV of any 4-digit number. Round any number to the nearest 10, 100 or 1000. Round decimals with 1dp to nearest whole number. | Recognise PV of any number up to 1000000. Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 or 100000. Round decimals with 2dp to nearest whole number & 1dp. | Round any whole number to a required degree of accuracy. |

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|----------------------------|--|---|---|---|---|--|---|
| Calculations +/- | Add & subtract two single digit numbers. | Add & subtract: <ul style="list-style-type: none"> 1 digit & 2 digit numbers to 20, including zero. Add any three 1-digit numbers with a total up to 20. | Add & subtract: <ul style="list-style-type: none"> 2-digit nos & ones 2-digit nos & tens Two 2-digit nos Three 1-digit nos Recognise & use inverse. | Add & subtract: <ul style="list-style-type: none"> 3-digit nos & ones 3-digit nos & tens 3-digit nos & hundreds Add & subtract: <ul style="list-style-type: none"> Numbers with up to 3-digits using efficient written method (column). Use inverse to check. | Add & subtract: <ul style="list-style-type: none"> Numbers with up to 4-digits using efficient written method (column). Numbers with up to 1dp. | Add & subtract: <ul style="list-style-type: none"> Numbers with more than 4-digits using efficient written method (column). Numbers with up to 2dp. | |
| Calculations x/÷ | | Solve simple multiplication & division with apparatus & arrays. | Calculate & write multiplication & division calculations using multiplication tables. Recognise & use inverse. | Multiply: <ul style="list-style-type: none"> 2-digit by 1-digit | Multiply: <ul style="list-style-type: none"> 2-digit by 1-digit 3-digit by 1-digit Divide: <ul style="list-style-type: none"> 3-digit by 1-digit | Multiply: <ul style="list-style-type: none"> 4-digits by 1-digit/ 2-digit Divide: <ul style="list-style-type: none"> 4-digits by 1-digit Multiply & divide: <ul style="list-style-type: none"> Whole numbers & decimals by 10, 100 & 1000 | Multiply: <ul style="list-style-type: none"> 4-digit by 2-digit Divide: <ul style="list-style-type: none"> 4-digit by 2-digit |

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|-------------------------|-----|---|---|--|--|--|---|
| Fractions & percentages | | Recognise half and quarter of object, shape or quantity. | Recognise, find, name & write $\frac{1}{3}$; $\frac{1}{4}$; $\frac{2}{4}$; $\frac{3}{4}$. Recognise equivalence of simple fractions. | Count up/down in tenths. Compare & order fractions with same denominator. +/- fractions with same denominator with whole. Know pairs of fractions that total 1. | Count up/down in hundredths. Write equivalent fractions +/- fractions with same denominator. | Count up/down in thousandths. Recognise mixed numbers & fractions & convert from one to another. Multiply proper fractions by whole numbers. | Add & subtract fractions with different denominators & mixed numbers. Multiply simple pairs of proper fractions, writing the answer in the simplest form. Divide proper fractions by whole numbers. Calculate % of whole number. |
| Time | | Sequence events in order. Use language of day, week, month and year. Tell time to hour & half past. | Tell time to five minutes, including quarter past/to. | Tell time using 12 and 24 hour clocks; and using roman numerals. Tell time to nearest minute. Know number of days in each month. | Read, write & convert time between analogue & digital 12 & 24 hour clocks. | Solve time problems using timetables and converting between different units of time. | |