

Curriculum for Excellence Level 2 (by the end of P7 or earlier for some)

Aug-Dec of P6

- reinforce basic bonding eg $8+7$, $9+8$, $17-9$ etc with an emphasis on speed and fluency, and, all the times tables to 10 to \times and \div
- read** and **verbalise** 6 digit numbers and give the number before or after and, add or subtract 1, 10 or 100 to/from 4 or 5 digit numbers eg $3486 - 100$
- find thirds, fifths and tenths of quantities belonging to these tables eg $1/3$ of 24, $1/5$ of 40 and discuss mental agility strategies
- round 1dp numbers to the nearest whole number eg 2.4 is nearer to 2, ... and use rounding to estimate the answer to a problem
- add and subtract single digits to/from 3 digits eg $298+5$, $303-4$, $495+9$, $600-8$, and multiples of 10 to/from 3 digits eg $246+30$, $317+50$, $466-40$, ...
- bond any number with 100 eg 72 bonds with 28, 87 bonds with 13, ..., and find change from £1 or £5 for quantities such as £3.25, using terms profit and loss in simple calculations
- multiply 2 and 3 digit numbers by 10 eg 391×10
- find simple time differences using the 12 hour clock eg from 8.55am to 9.13am and by using electronic or paper based time tables
- double numbers to 100 eg 2×56 , 2×74 and associated halves eg $1/2$ of 112, $1/2$ of 148, and, halves of multiples of 100 eg $1/2$ of 1300 ...
- convert between related units of the metric system and use common units when estimating sizes, including perimeters and areas of 2D shapes
- find $1/2$, $1/3$, $1/4$ and $1/5$ of more complex quantities eg $1/2$ of 512, $1/3$ of 720 or $1/4$ of 900 ... and other everyday contexts in which fractions are used, and carry out necessary calculations

Mental agility progressions and
flashcards from the **WEE RED BOX**

Jan - March of P6

- find simple time differences using the 12 and 24 hour clock including using electronic or paper based time tables
- reinforce the times tables to multiply and divide but with an emphasis on speed and use to find thirds, fifths and tenths of quantities belonging to these tables eg $1/3$ of 24, $1/5$ of 40
- find change from £5 when using multiples of 10p eg £3.60 leaves £1.40, ... compare costs and determine what can be afforded, using terms profit and loss in simple calculations
- add and subtract single digits to/from 3 digits eg $298+9$, $303-9$, $995+9$, $602-7$
- for whole numbers, determine which calculations are needed and share solutions with others
- add and subtract multiples of 10 to/from 3 digits eg $296+20$, $387+20$, $412-10$, $600-30$, $611-20$
- read up to 7 digit numbers eg 2666513, give the number before or after, and ± 1 , 10 or 100
- find halves of even numbers to 100 eg find $1/2$ of 34, $1/2$ of 56, $1/2$ of 78, ..., and, halves of multiples of 10 eg $1/2$ of 130, $1/2$ of 340 and discuss mental agility strategies
- round 2dp numbers to the nearest whole number eg £2.85 is nearer to £3 and use rounding to estimate the answer to a problem
- give remainders to division eg $14 \div 3$, $24 \div 7$
- bond 3 digit numbers with 1000 eg 925 and 75, 875 and 125, 550 and 450, ... and find change from £10 eg £8.75 gives £1.25 change, ...
- find quarters of multiples of 100 eg $1/4$ of 600, $1/4$ of 1000, $1/4$ of 500 and halves of 3 digit numbers eg $1/2$ of 170, $1/2$ of 360, $1/2$ of 450, ...

For maths CPD and/or other support materials from
Tom Renwick visit www.mathsontrack.com

April - June of P6

- add and subtract multiples of 10 to/from 3 digits eg $296+50$, $376+30$, $402-10$, $900-00$, $611-30$
- convert between 12 and 24 times eg 8.25am is 08:25 and 3.30pm is 15:30
- give remainders to division by any of the tables eg $14 \div 6$, $24 \div 9$, ...
- round 2dp numbers to the nearest whole number eg 3.19 is nearer to 3 than 4, ... and use rounding to estimate the answer to a problem
- find halves of 3 digit numbers eg $1/2$ of 250, $1/2$ of 350, $1/2$ of 650, and quarters of multiples of 100 eg $1/4$ of 300, and discuss strategies
- bond 3 digit numbers with 1000, eg 775 and 225, and the change from £10 eg £7.75
- read 7 digit numbers eg 3458989, give the number before or after and ± 1 , 10, 100, 1000
- find 50% of numbers or quantities eg 50% of 18, 50% of £16, ... and for everyday contexts in which fractions, percentages and decimal fractions are used
- use decimals to find halves of odd whole numbers eg $3 \div 2 = 1.5$, or $5 \div 2 = 2.5$ and explain the links between a digit, its place and its value, including decimals
- add and subtract 2 digit numbers to/from 2 digit numbers eg $69+18$, $50-32$, ...
- recognise the equivalence between fractions, decimals and percentages eg $1/2 = 0.5 = 50\%$, or $1/4 = 0.25 = 25\%$ or $3/4 = 0.75 = 75\%$ and choose the preferred form when solving a problem, explaining the choice of method
- multiply and divide 2 and 3 digit numbers by a single digit eg 30×4 , 25×5 , 40×6 , and $60 \div 4$, $150 \div 3$, $200 \div 5$, ...