

## Headlands Primary School Subtraction Policy and Methods

|   | Mental Calculations | Calculation                       | Methods   |
|---|---------------------|-----------------------------------|---|
| Е |                     | Using quantities and objects,     | Children use objects and pictures to support subtraction. |
| Y |                     | subtract two single-digit numbers |   |
| F |                     | and count back to find the        |   |
| 5 |                     | answer.                           |   |
|   |                     | Find one less from a group of up  |   |
|   |                     | to five objects then ten objects  |   |
|   |                     |                                   | 0 1 2 3 4 5 6 7 8 9 10                                    |
|   |                     | In practical activities and       |   |
|   |                     | discussion, begin to use the      |   |
|   |                     | vocabulary involved in            |   |
|   |                     | subtracting                       | 🏽 🛛 🗤 🗖 🖾 🔛   |
|   |                     |                                   |   |
|   |                     |                                   |   |
|   |                     |                                   |   |
|   |                     |                                   |   |
|   |                     |                                   |   |
|   |                     |                                   |   |
|   |                     |                                   | è ë ë ë ♥ ♥   |
|   |                     |                                   |   |
|   |                     |                                   | 1 2 3 4 5   |
|   |                     |                                   |   |
|   |                     |                                   |   |
|   |                     |                                   |   |



| Y<br>e<br>a<br>r<br>1 | Add and subtract one-digit and two-digit<br>numbers to 20, including zero<br>Read, write and interpret mathematical<br>statements involving addition (+), subtraction<br>(-) and equals (=) signs                                   | Read, write and interpret<br>mathematical statements<br>involving addition (+), subtraction<br>(-) and equals (=) signs | Complete the number sentence.<br>Complete the number sentence.<br>$7-2 = \_$ Use counters/cubes to help you solve and complete:<br> |
|-----------------------|---|---|---|
| Y<br>e<br>a<br>r<br>2 | Subtract numbers using concrete objects,<br>pictorial representations, and mentally,<br>including:<br>* a two-digit number and ones<br>* a two-digit number and tens<br>* two two-digit numbers<br>* adding three one-digit numbers | Solve problems with addition and<br>subtraction:  | 20 - 7 =  |



Using concrete materials, complete the missingboxes.

| 10 less | Number | 10 more |
|---------|--------|---------|
|         | 1      | 1       |
| 2       | 12     | 22      |
|         |        |         |
|         | 37     |         |



Class 3 gives one of their full packets of crayons away.

How many crayons do they have left?

| Tens | Ones |  |  |
|------|------|--|--|
|      | :::  |  |  |
|      |      |  |  |
|      |      |  |  |

56 -30





| Y<br>e<br>a<br>r<br>5 | Add and subtract numbers mentally with increasingly large numbers | Add and subtract whole numbers<br>with more than 4 digits, including<br>using formal written methods<br>(columnar addition and<br>subtraction) | Column method using place value counters.<br>234 - 88   |
|-----------------------|---|--|---|
|                       |   |  | Expanded method leading to column method  |
| Y<br>e<br>a<br>r<br>6 |   | Solve addition and subtraction<br>multi-step problems in contexts,<br>deciding which operations and<br>methods to use and why                  | $ \frac{67' 145' 14}{6 6 8} $ Hudded for a first for a fi |
|                       |   |  | decomposition and place value.  |

Once children are confident in exchanging and have a clear understanding of place value, move towards the **formal column method.** 

## Addition and subtraction

| 789 + 642 becomes |     |        | 8        | 874 – 523 becomes |  |   | omes   | 932 – 457 becomes |        |   |
|-------------------|-----|--------|----------|-------------------|--|---|--------|-------------------|--------|---|
|                   | +   | 7<br>6 | 8<br>4   | 9<br>2            |  | _ | 8<br>5 | 7<br>2            | 4<br>3 | <sup>8</sup> <sup>12</sup> <sup>1</sup><br>9 3 2<br>- 4 5 7 |
|                   | 1   | 4      | <b>3</b> | 1                 |  |   | 3      | 5                 | 1      | 4 7 5   |
|                   | Ans | swer   | : 14     | 31                |  | A | nsw    | er: 3             | 351    | Answer: 475   |

Continue **formal column method**, extending to calculations involving numbers with more than 4 digits.

Use place value counters to support understanding of decomposition and to ensure conceptual understanding of place value, add counters with 0.1, 0.01, and 0.001.

When children are confident in using **formal column method** with integers and decimals involving money (where there are always 2 decimal places), move on to looking at using the method to subtract with mixtures of integers and decimals. It is essential that children have a clear understanding of place value in these instances. Remind children to align the decimal point and use '*place holders'*, if needed.

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|  | 77.329 kg   |