## Sunnyside Primary Academy Subtraction Calculation Policy

Use NCETM Sentence Stems to support
https://nottinghamacademy.sharepoint.com/:b:/r/sites/spa primary/Shared\%20Documents/a4.\%20CURRICULUM\%20DOCUMENTS/Maths/Planning\%20and\%20Resources/NCETM\%20Sente nce\%20Stems\%20Addition\%20and\%20Subtraction.pdf?csf=1\&web=1\&e=NEhZtn

| Skills | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| 1.Physically taking away and removing objects from a whole <br> Take away, left less than, smaller, least, decrease, fewer | Ten frames, Numicon, cubes and other items such as beanbags could be used to explore physically taking away and counting how many are left. $4-3=1$ | Children to draw the concrete resources they are using and cross out the amount they are subtracting. The bar model should also be used. Bar model to show 1:1 correspondence where each part of the bar represents one physical object. | 4-3 = \|ly $\square$ |
| 2.Counting back <br> Count back, number line, number track | Using number lines or number tracks to count back. $6-2=4$ | Children to represent what they see pictorially e.g: | Children to represent the calculation on a number line or number track to show their jumps. Move onto an empty number line. |
| 3.Making 10 and using number bonds. Bonds, partition | Using ten frames: 14-5. Begin by making 14 on a tens frame, reinforcing 10 and 4 ones. Then subtract 4 (from the 4 on the ten frame). How many more do we need to subtract? (1). Take the one away from the 10. | Children to present the ten frame pictorially, they should subtract from the ones first then full ten frame. | Children to show how they can make 10 by partioning the subtrahend. Children may do this mentally without recordingas shown but must be able to verbalise their $14-4=10$ mental calculation. $10-1=9$ |

## Sunnyside Primary Academy Subtraction Calculation Policy

Use NCETM Sentence Stems to support
https://nottinghamacademy.sharepoint.com/:b:/r/sites/spa primary/Shared\%20Documents/a4.\%20CURRICULUM\%20DOCUMENTS/Maths/Planning\%20and\%20Resources/NCETM\%20Sente nce\%20Stems\%20Addition\%20and\%20Subtraction.pdf?csf=1\&web=1\&e=NEhZtn

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| 4.Finding the difference <br> Difference between, count on | Using physical resources (e.g. Numicon, cubes, Cuisenaire). Begin with finding the difference between single digits. <br> Calculate the difference between 8 and 5 . <br> Chn to also explore counting on on a number track and number line. <br> $12-5=$ Start at 5 and count on to 12 . How many jumps have you counting on? (7) | Children to draw the cubes or other concrete objects which they have used and use the bar model to illustrate what they need to calculate. For the bar model begin with 1:1 correspondence (bar split into 10 equal parts for Peter and bar split into 3 parts for Jane). Each individual part need to be the same length. Question marks shows the difference. | Find the diffence between and 8 and 5. $8-5$, the difference is $\square$ Children to explore why $9-6=, 8-5=$ and $7-4=$ have the same difference. |
| 5.Two digit subtract ones, then two digit subtract tens. Subtraction, minus, take away. | Using base 10 on a place value grid. Place value understanding should be consistently reinforced. Use 10s vertically and 1s in rows of 5 to begin with (to follow on from tens frame and so children can see bonds to 10). $48-7=41$ | Children to represent the base 10 pictorially (e.g. lines for tens and dots for ones). Children should record the 10 s vertically and 1 s in rows of 5 to begin with. Cross off the ones subtracted. How many ones are left? Record in ones place. How many tens are left? <br> Record in tens place. | Children to mentally count back to subtract. |

## Sunnyside Primary Academy Subtraction Calculation Policy

Use NCETM Sentence Stems to support
https://nottinghamacademy.sharepoint.com/:b:/r/sites/spa primary/Shared\%20Documents/a4.\%20CURRICULUM\%20DOCUMENTS/Maths/Planning\%20and\%20Resources/NCETM\%20Sente


## Sunnyside Primary Academy Subtraction Calculation Policy

Use NCETM Sentence Stems to support
https://nottinghamacademy.sharepoint.com/:b:/r/sites/spa primary/Shared\%20Documents/a4.\%20CURRICULUM\%20DOCUMENTS/Maths/Planning\%20and\%20Resources/NCETM\%20Sente nce\%20Stems\%20Addition\%20and\%20Subtraction.pdf?csf=1\&web=1\&e=NEhZtn

## Conceptual variation:

142-65


There are 142 pencils in a box but 65 have been broken. How many pencils are left to use?


Find the difference between 65 and
142.

## Mental Strategies:

- Count back in hundreds, tens or ones
- 1 less than a number, 10 less than a number
- Subtract mentally a near multiple of 10
- Find a small number by counting back
- Find a difference by counting up from the smaller number to the larger number (on a number line)
- Bridge through a multiple of 10 and then adjust
- Use knowledge of number facts and place value to subtract pairs of numbers
- Subtract a 2-digit number by partitioning it and then subtracting its tens and ones
- Use the relationship between addition and subtraction


## Sunnyside Primary Academy Subtraction Calculation Policy

Use NCETM Sentence Stems to support
https://nottinghamacademy.sharepoint.com/:b:/r/sites/spa primary/Shared\%20Documents/a4.\%20CURRICULUM\%20DOCUMENTS/Maths/Planning\%20and\%20Resources/NCETM\%20Sente nce\%20Stems\%20Addition\%20and\%20Subtraction.pdf?csf=1\&web=1\&e=NEhZtn

## Written Methods of Subtraction



