Mastery Learning Folder Mental Maths Flashcards

Mastery Learning Folders are designed to support classroom learning and to assist the movement of knowledge from working memory to long-term memory.

Foundational Skills

Level 1

Level 2

FIND IN THE FLASHCARD CLUB

Counting Principles up to Ten:

- 1. Stable Order: know number names in order
- 2. One-to-One Correspondence: matching quantity to count
- 3. Cardinality: last number spoken when counting represents the total

Additionally

- Order Irrelevance: counting objects from different start points
- b. Abstraction: count similar objects count different objects count unseen objects
- c. Subitising

Numeral Recognition to 10

Counting Songs

Principles of Counting (Kindy)

Subitising (regular to 6)

TEMPLATES

Recording Chart
Student Graph
Blank Flashcard Sheet

Establish understanding of the language and processes of counting by naming numbers in sequences, initially to and from 20, moving from any starting point.

Numerals to 20
Principles of Counting

Connect number names, numerals and quantities, including zero, initially up to 10 and then beyond.

Number Names to Ten Number Connections

Subitise small collections of objects.

<u>Subitising (irregular to 6)</u> <u>Subitising (objects to 10)</u>

Compare, order and make correspondences between collections, initially to 20, and explain reasoning.

Comparing Collections
Ordinal Names
Ordinal to 5

Represent practical situations to model addition and sharing.

Practical Addition
Sharing

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Represent and solve simple addition and subtraction problems using a range of strategies including counting on, partitioning and rearranging parts.

Addition

Adding Zero
Ten Frame Partitioning
Friends of Ten
Counting On by 1, 2 & 3
Ten Plus
Doubles to 20

Subtraction

Mixed Addition Strategies

Subtracting Zero
Subtraction Using Friends of Ten
Subtraction Using Doubles

Develop confidence with number sequences to and from 100 by ones from any starting point. Skip count by twos, fives and tens starting from zero.

Multiplication
Skip Count by 2
Skip Count by 5
Skip Count by 10

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Explore the connection between addition and subtraction.

Part Part Whole

Solve simple addition and subtraction problems using a range of efficient mental and written strategies.

Addition

Friends of 20

Bridging Ten

Doubles Plus 1

Doubles Plus 2

Make it a Double

Mixed Addition Strategies

Subtraction

Two Part Subtraction

Use Known Facts

Use Tens & Ones

Use Adding On

Find the Difference

Make It Easy

Recognise and represent multiplication as repeated addition, groups and arrays.

Multiplication
Skip Count by 3

Nicola Carr-White
MASTERY LEARNING GROUP

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Level 3

Level 4 +

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Recall multiplication facts of two, three, five and ten and related division facts.

Mult/Div Triangles for 10
Mult/Div for 10

Mult/Div Triangles for 5
Mult/Div for 5

Mult/Div Triangles for 3
Mult/Div for 3

Mult/Div Triangles for 2
Mult/Div for 2

Dividing with Doubles

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Recall multiplication facts up to 10 x 10.

Mult/Div Triangles for 4
Mult/Div for 4

Mult/Div Triangles for 6
Mult/Div for 6

Mult/Div Triangles for 7
Mult/Div for 7

Mult/Div Triangles for 8
Mult/Div for 8

Mult/Div Triangles for 9
Mult/Div for 9

Apply place value to partition, rearrange and regroup numbers to at least tens of thousands to assist calculations and solve problems.

Mult by 10, 100, 1000

Balancing Strategy
Chunking Strategy
Easy Pairs Strategy
Partition and Fix Strategy
Place Value Strategy

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