

CURRICULUM FOR “EARLY MATH MATTERS” PROGRAM

Early Math Matters Curriculum – Age 6

Numbers 1 to 10

- Mental image for digits 0 to 9
- Count within 10
- Match different representations of a number within 10
- Count from 0 to 10
- Count backward from 10 to 0
- Arrange numbers 0 to 10 in order
- Application of these concepts through game-like activities

Number-Bonds

- Number-stories
- Make number-bond diagrams
- Number bonds of a given number
- Missing part of a number bond
- Number pairs that make 10

Addition

- Joining and Plus Sign
- Addition sentence
- Number stories
- Addition facts
- “Count-on” strategy.

Subtraction

- Taking-away and Minus Sign
- Subtraction Stories
- Comparison of subtraction and addition
- Subtraction facts
- Addition and subtraction facts
- Count-back strategy
- Adjacent numbers.

Ordinal Numbers

- Ordinal numbers versus numbers
- Counting from both ends of a sequence.

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Numbers to 20

- Counting within 20 by making 10 first
- Tens and ones
- Count back from 20
- Compare
- Ordered sequence
- “Make 10” strategy for adding
- Adding a 2-digit number and a 1-digit number
- Subtracting a 1-digit number from a 2-digit number

Shapes

- Describing shapes
- Basic geometrical shapes
- Attributes
- Repeated patterns
- Construction of shapes

Length

- Comparison of lengths
- Measurement of length

Weight

- Comparison of weight
- Measurement of weight

Comparing Numbers

- “More than” and “less than”
- “One more than” and “one less than”
- Comparison by subtraction

Graphs

- One-to-one representation
- Reading and interpreting data

Numbers to 40

- Counting beyond 20
- Counting beyond 30
- Counting by making tens first
- Compare and order

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- Tens and ones
- More than and less than
- “More than” and “less than”
- Add a 1-digit number and a 2-digit number
- Subtract a 1-digit number from a 2-digit number
- Add a ten and subtract a 10
- Count-on and count-back
- Make-ten strategy
- Subtract-from-ten strategy
- Add three one-digit numbers

Multiplication

- Recognize equal groups
- Mathematical language
- Concept of multiplication
- Interpretation of multiplication sentences
- Multiplication facts by repeated addition
- Rectangular arrays

Division

- Sharing concept of division
- Grouping concept of division

Halves and Quarters

- Halves
- Quarters
- Recognition of halves and quarters
- Recognition of patterns

Time

- On the hour
- Half past the hour.

Numbers to 100

- Counting by tens
- Counting within 100
- Number-symbols and number-words
- More than and less than: One and Ten
- Comparing two numbers
- Order

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- Count-on and count-back
- Add a 2-digit number and a 1-digit number
- Make-ten strategy
- Add a 2-digit number and tens
- Add two 2-digit numbers
- Subtract a 1-digit number from a 2-digit number
- Subtract-from-ten strategy
- Subtract tens from a 2-digit number
- Subtract a 2-digit number from a 2-digit number

Money

- Recognize coins and count
- Recognize bills
- Comparison
- Read prices and prepare payment