# California Common Core Transitional Syllabus
## 2012-2013 School Year

## Kindergarten

- Exploring Shapes
- Numbers and Objects to 5
- Subitizing
- Numbers and Objects to 10
- Analyzing Shapes
- Greater than, Less than, Equal to
- Understanding Addition and Subtraction within 5
- Numbers and Objects to 20
- Introduction to the Number Line
- Comparing Numbers
- Understanding Addition and Subtraction within 10
- Making 10 and Number Pairs
- Sorting and Classifying
- Foundations of Place Value
- Measurable Attributes
- Composing Shapes
- Position
- Reasoning with Attributes
- Concepts of Time
- Addition and Subtraction Facts within 5
- Challenge
- Position LI *
- Exploring Patterns *
- Advanced Patterns *
- Numbers to 30 *

## Grade 1

- Introduction to the Number Line
- Counting to 100
- Subitizing
- Addition and Subtraction within 10
- Addition, Subtraction and Equations
- Foundations of Place Value
- Counting by Tens
- Roll, Stack,Wedge
- Counting with Groups
- Counting to 120
- Place Value Concepts
- Number Pairs and Making 10
- Addition and Subtraction Situations with Unknowns
- Measurement Concepts
- Shape Differences
- Composite Shapes
- Adding and Subtracting by Tens
- Using Place Value to Add
- Equal Shares and Partitioning
- Comparing Two-Digit Numbers
- Organizing Data
- Telling Time
- Patterns
- Addition and Subtraction within 20
- Challenge
- Position LI *
- Equal Shares and Partitioning LI *
- Two-Digit Number Words *
- Sorting and Classifying *
- Money *

## Grade 2

- Place Value and Comparing Numbers
- Operations on the Number Line
- Addition and Subtraction Situations
- Addition and Subtraction Situations within 100
- Money
- Money, Extended
- Equal Groups
- Division Concepts
- Patterns and Functions
- Fraction Concepts
- Comparing Fractions
- Combining Shapes
- Identifying Shapes
- Recognizing Shape Attributes
- Place Value Concepts
- Place Value Bundles - Ten and Hundred
- Comparing Three-Digit Numbers
- Telling Time
- Counting to 1000
- Using Place Value to Add and Subtract
- Regrouping Concepts in Addition
- Regrouping Concepts in Subtraction
- Measurement
- Range and Mode
- Creating Graphs
- Multiplication Facts
- Elapsed Time
- Time Relationships
- Challenge
- Temperature and Capacity *
- More Fraction Concepts *
- Rows and Columns *
- Partitioning *
- Partitioning LI *
- Time *

*Optional Content

## Grade 3

- Equal Groups
- Multiplication Concepts
- Place Value Concepts
- Place Value Bundles - Ten, Hundred, Thousand
- Ordering and Comparing Whole Numbers
- Addition and Subtraction with Regrouping
- Division Concepts
- Division
- Lines and Angles
- Shapes
- Shape Attributes

- Algebraic Expressions and Equations
- Functional Relationships
- Fraction Concepts
- Fraction Addition and Subtraction
- Fraction Addition and Subtraction LI
- Money and Decimals
- Measurement
- Concepts of Area and Perimeter
- Volume and Weight
- Addition and Subtraction to 10,000
- Number Patterns
- Multiplication of Multi-Digits
- Fraction and Decimal Equivalence

- Outcomes
- Using Data and Graphs
- Challenge
- Temperature and Capacity *
- Dollars and Cents *
- Number Names and Expanded Forms *
- Unknowns in Two Step Problems *
- Multiplication *
- Fractions on the Number Line *
- Comparing Fractions *
- Addition and Subtraction *

## Grade 4

- Understanding Place Value to 1,000,000
- Rounding Whole Numbers
- Comparing Whole Numbers
- Lines of Symmetry
- Addition and Subtraction within 1,000,000
- Multi-Digit Multiplication
- Multi-Digit Division
- Mixed Numbers
- Fractions - Equivalence and Ordering
- Fraction and Decimal Equivalence
- Comparing Decimals

- Decimal Operations and Money
- Factors and Multiples
- Integers
- Variables and Equations
- Input Output
- Using Parentheses
- Exploring Lines and Shapes
- Parallel Lines and Parallelograms
- Angles and Triangles
- Applying Area and Perimeter
- Graphing on Coordinate Grids
- Median Mode
- Using Data and Graphs

- Outcomes
- Temperature and Capacity
- Challenge
- Fraction Addition and Subtraction *
- Fraction Addition and Subtraction LI *
- Advanced Shapes *
- Measurement and Conversions *
- Fraction Multiples *
- Patterns in Number and Shape *
- Multiple Operations *
- Addition and Subtraction with Regrouping *

## Grade 5

- Fraction and Decimal Concepts
- Fractions on the Number Line
- Rounding Decimals
- Exponents
- Prime Factors
- Area and Perimeter
- Volume
- Addition and Subtraction with Decimals
- Fraction Addition and Subtraction
- Fraction Addition Subtraction LI

- Relationship of Decimals, Fractions, Percents
- Negative Number Operations
- Shapes and Properties
- Angles
- Ordered Pairs and Graphing
- Variables and Equations
- Using Parentheses
- Linear Functions
- Whole Number Operations
- Fraction Multiplication

- Mean Median Mode
- Using Data and Graphs
- Multiplying with Decimals
- Dividing with Decimals
- Challenge
- Temperature and Capacity *
- Converting Measurements *
- The Coordinate Plane, Extended *
- Decimal Place Value *
- Area *

*Optional Content*

**For more information:**
Contact us at info@mindresearch.net
**www.mindresearch.net**

**MIND Research Institute**
A neuroscience and education research-based non-profit corporation

M A T H