LION for Math
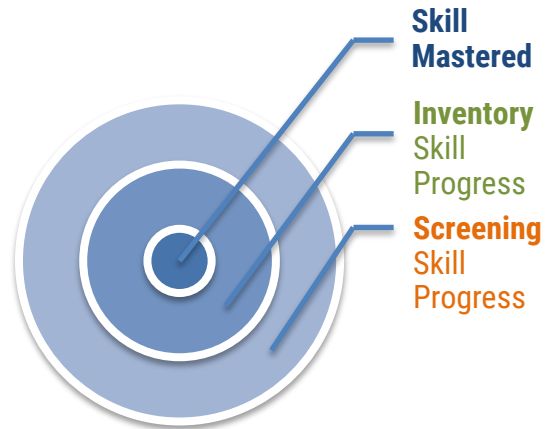## Bridging Assessment and Instruction

Math Assessment Solution

KG – 5 (English & Spanish)

6 – Algebra I

Universal Screener

Pre and Post-Test

Track Progress Year-to-Year

Adaptive and Individualized

Skill Mastered

Inventory Skill Progress

Screening Skill Progress

Key Concepts

Numerical Representations and Relationships

Computations and Algebraic Relationships

Geometry and Measurement
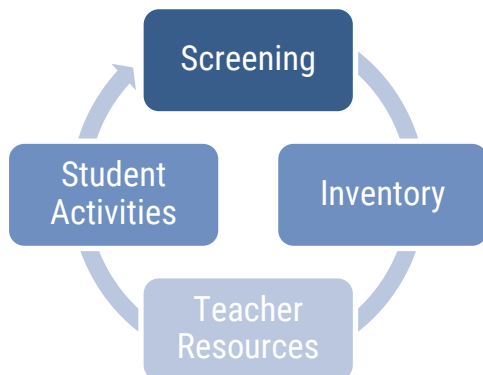
Data Analysis and Personal Financial Literacy

Screening Concepts

Previous Grade Level

Vertically Aligned to Grade Level Readiness

Scope

Benchmark – 3 times a year

Progress Monitoring – every 3 weeks

Customized to District Needs

Inventory Concepts

Student Grade Level Readiness

Six Questions Per Concept

Easy Administration

Group Administered

Web-Based, Lab Setting

20-45 Minutes

Targeted, Actionable Results

Immediate Scoring, Grouping, and Reporting

Teacher-Based Instructional Resources

Student- Based Instructional Resources

The LION Difference

TEKS-Based Results

Correlations and Comparisons to STAAR/EOC

Comparisons to District Assessments and Benchmarks

Screening

Inventory

Teacher Resources

Student Activities

LION for Math
Bridging Assessment and Instruction

The LION for Math framework is based on the student expectations. Student expectations are grouped into a Screening and an Inventory. For each grade level, the essential (readiness) expectations were identified. Assessment items based on these expectations are considered the **Inventory** and help teachers track grade-level learning progress throughout the school year. Pre-requisite expectations, based on the vertical alignment and skills development, were then identified for the previous grade level. Assessment items based on these concepts are the assessment **Screening**.

Kindergarten

Whole Numbers
Number of Objects
Comparing Numbers
Compose Objects
Decompose Objects
Subtraction
Two-Dimensional Shape Ident.
Three-Dimensional Shape Ident.
Measurement
Graphs

Grade 1

Whole Numbers
Comparing Numbers
Addition
Subtraction
Money
Composing Objects
Decomposing Objects
Addition Operations
Subtraction Operations
Classify Shapes
Identify Shapes
Identify Solids
Measurement
Time
Graphs

Grade 2

Whole Numbers
Place Value
Fractions
Addition Place Value
Subtraction Place Value
Addition Whole Numbers
Subtraction Whole Numbers
Money
Three-Dimensional Objects
Polygons
Measurement
Time
Graphs

Grade 3

Compose Numbers
Decompose Numbers
Comparing Whole Numbers
Equivalent Fractions
Comparing Fractions
Addition Place Value
Subtraction Place Value
Multiplication Strategy
Division Strategy
Addition Strategy
Subtraction Strategy
Multiplication
Division
Tables
Classify Shapes
Area
Perimeter
Graphs

Grade 4

Place Value
Decimals to Fractions
Compare Fractions
Addition Fractions
Subtraction Fractions
Addition
Subtraction
Multiplication
Division
Four Operations
Input-Output Table
Perimeter
Area
Parallel and Perpendicular Figures
Angles
Measurement
Graphs

Grade 5

Compare Decimals
Multiplication Decimals
Division Decimals
Addition Rational Numbers
Subtraction Rational Numbers
Division Fractions
Four Operations
Rule Patterns
Simplification
Perimeter, Area, and Volume
Classify Figures
Coordinate Plan Graph
Graphs

LION for Math
Bridging Assessment and Instruction

Grade 6

Ordering Rational Numbers
Four Operations
Multiply Rational Numbers
Divide Rational Numbers
Ratios and Rates
Equivalent Forms
Measurement Conversions
Percentages
Equations
Order of Operations
Properties
Area & Volume
Equations and Inequalities
Graph Points
Mean, Median, Range, and IQR
Mode and Frequency
Interpret Data

Algebra I

Linear Functions
Linear Equations
Systems
Rate of Change
Graphing
Linear Inequalities
Distributive Property
Systems
Domain and Range
Quadratic Functions
Parent Function
Quadratic Formula
Write Exponential Functions
Graph Exponential Functions
Trinomials
Exponents

Grade 7

Four Operations
Rate of Change
Ratios, Rates, and Percents
Shape and Scale
Interpret Graph Data
Qualitative & Quantitative Predictions
Probabilities
Linear Graphs
Volume
Circles
Composite Area
Equations and Inequalities
Compare Data

Grade 8

Order Numbers
Coordinate Plane
Proportional Relationships
Rate of Change and Slope
Linear Relationships
Functions
Linear Relationships
Volume
Area
Pythagorean Theorem
Variable Equations
Translations and Reflections
Financial Literacy