

# Math Program



# Grades: K-2

- Resource: Everyday Math
- Early foundational years
- Differentiation with in classroom

# Grades: 3-5

- Resource: Everyday Math
- Regrouping after pre-assessment based on results
- Advanced math begins in 4th grade
  - Grade level standards
  - Not as much modeling and practice needed before application problems

# Grades: 6-8

- Resource: Digits
- Students need to master standards up to grade 5 before they can learn grade 6 standards
- Acceleration can begin in 6th or 7th grade

# Common Core Math Domain Progression

Domains change in 6th grade.

Advanced classes continue, but there is an opportunity for acceleration during grades 6-8.

Acceleration doesn't skip grade levels, but rather accelerates so students learn more than one year's worth of standards in a year.

K	1	2	3	4	5	6	7	8	HS
Counting & Cardinality									
Number & Operations Base Ten						Ratios & Proportional Relationships			Number & Quantity
			Number & Operations Fractions			The Number System			
Operations & Algebraic Thinking						Expressions & Equations			Algebra
								Functions	Functions
Geometry									Geometry
Measurement & Data						Statistics & Probability			Statistics & Probability

# Identification Matrix

- Math NWEA
- Reading NWEA
- CogAt
- Teacher Rating Scale

# Teacher Rating Scale

## MATHEMATICAL SKILLS/CONCEPTS

Understands new math concepts and processes more easily than peers

Displays strong number sense, estimating and judging the reasonableness of strategies and solutions easily and accurately (MP1 & 5)

Generalizes mathematical relationships and discovers patterns (MP7)

## MATHEMATICAL PRACTICES

Shows a high level of interest and perseverance when approaching a non-routine task (MP1)

Draws from a wide range of strategies and switches strategies easily, when necessary (MP1)

Successfully communicates and defends mathematical reasoning using objects, drawings, diagrams, actions, and verbal and written communication (MP3)

## WORK HABITS & HABITS OF MIND

Completes homework on time and with accuracy (MP6)

Completes in class work independently and with accuracy (MP6)

Self directed learner who enjoys challenges and math extension opportunities

Exhibits curiosity and seeks creative ways to approach and solve problems that are unique

# What is CogAT?

- An abilities assessment given to students in 2nd and 5th grade.
- CogAT measures learned reasoning and problem-solving skills in three different areas, or batteries: verbal, non-verbal, and qualitative.
- CogAT does not measure factors such as work ethic, effort, motivation and attitude, which contribute to school achievement.



# How do the batteries of CogAT differ?

## Verbal

Measures a child's ability to remember and transform sequences of English words, to understand them, and make inferences and judgements about them.

## Primary Level

*Directions: Put your marker under the fish. Look at the pictures in this row. Kory's family has a cat named Tabby. When the family is away, Tabby waits for them. Somehow Tabby always sees them before they get to the front door. How does Tabby do this? Fill in the circle under the correct answer.*

### Verbal Reasoning

## Intermediate Level

*Directions: Find the word that makes the best sense in the sentence and mark the correct answer on your answer document.*

### Sentence Completion

On the way home from school, Lashanda jumped in the many \_\_\_\_\_ that the rain had left.

J rivers     puddles    L flowers    M holes    N lakes

# How do the batteries of CogAT differ?

## Quantitative

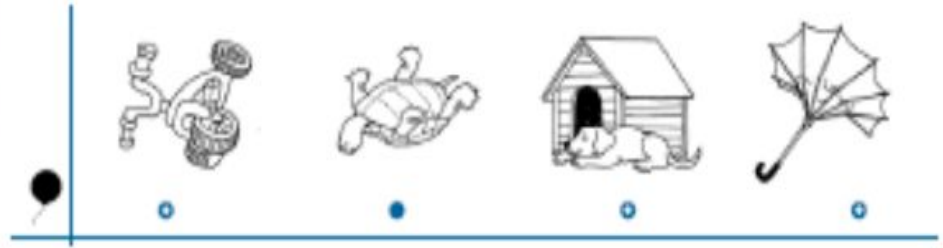
Tests a child's understanding of basic quantitative concepts and relationships that are necessary to understand mathematics.

Tasks in this section measure a child's ability to discover relationships and figure out a rule or principle that explains them.

## Primary Level

*Directions: Put your marker under the balloon. Look at the pictures in this row. Find the one that is turned upside down. Fill in the circle under the right answer.*

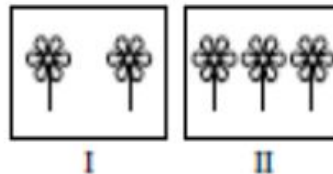
### Relational Concepts



## Intermediate Level

*Directions: Figure out the value of I and II. Then decide if I is greater than II, less than II, or equal to II.*

### Quantitative Relations



- A I has more flowers than II.
- B I has fewer flowers than II.
- C I has the same number of flowers as II.

# How do the batteries of CogAT differ?

## Non-Verbal

Measures reasoning using pictures and geometric shapes.

This battery reduces the impact of language on a child's score.

### Primary Level

*Directions: Put your marker under the whale. Think about how the first three pictures are alike. Now look at the rest of the pictures in the row. Which one goes with the first three pictures? Which one is like them? Fill in the circle under the picture that goes with the first three.*

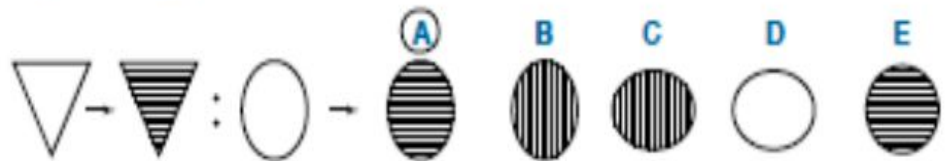
#### Figure Classification



### Intermediate Level

*Directions: The first figure is changed into the second figure. The third figure is changed in the same way to make one of the answer choices. Choose the answer choice that goes with the third figure.*

#### Figure Analogies



# When does D34 give CogAT?

- Second grade- May
- Fifth grade- November

