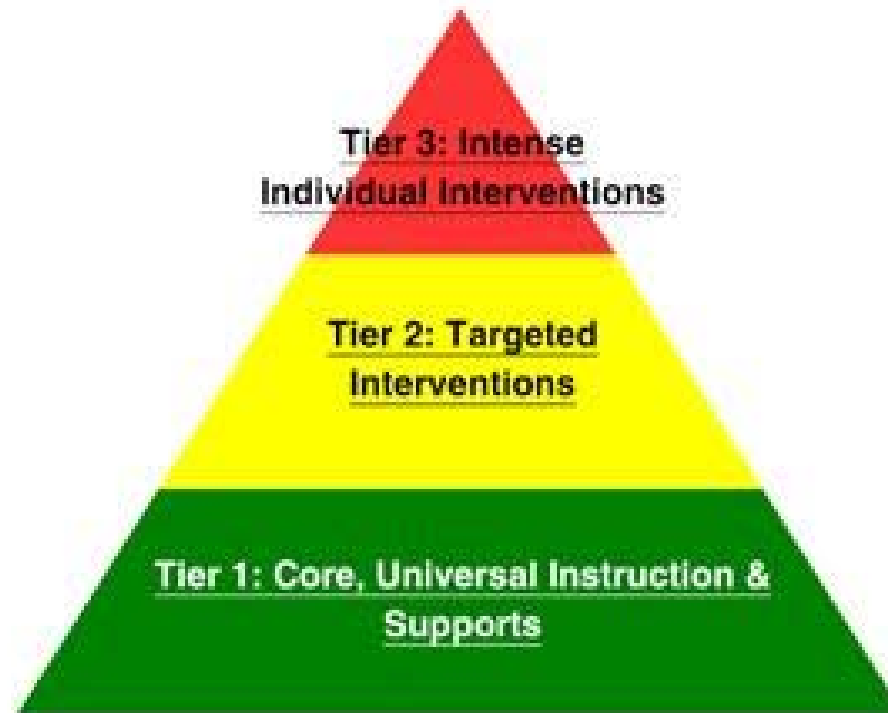


Using Assessments and Resources to Help Your Child Grow Academically

Math

Multi – Tiered Systems of Support (MTSS)



Multi-Tiered Systems of Support (MTSS)

- Assessments - Universal, Curriculum Based, Formative, Progress Monitoring
- Data Collection and Review
- Planning Instruction and Intervention according to deficits and PA Common Core Standards
- Utilizing resources to provide appropriate instruction –
 - Core math instruction – classroom
 - Interventions and Extensions during MTSS time
 - Independent supports-flashcards and Dreambox

Assessments

- Universal Assessments given to all students provide benchmark targets according to grade level.
 - DIBELS Early Numeracy (Kdg and 1st grade)
 - DIBELS Computation / Concepts and Applications (2nd -5th grade)
 - Study Island Benchmarking (3rd-5th grade)
- Formative Assessments allow teachers to monitor understanding during instruction, identify misconceptions and adjust instruction
- Progress Monitoring assessments occur between benchmarks to monitor progress toward a growth goal or grade level target.

Standards PA Common Core

Numbers and
Operations

Algebraic
Concepts

Geometry

Measurement,
Data and Probability

Standards of Mathematical Content

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

SAS – KASD website under links

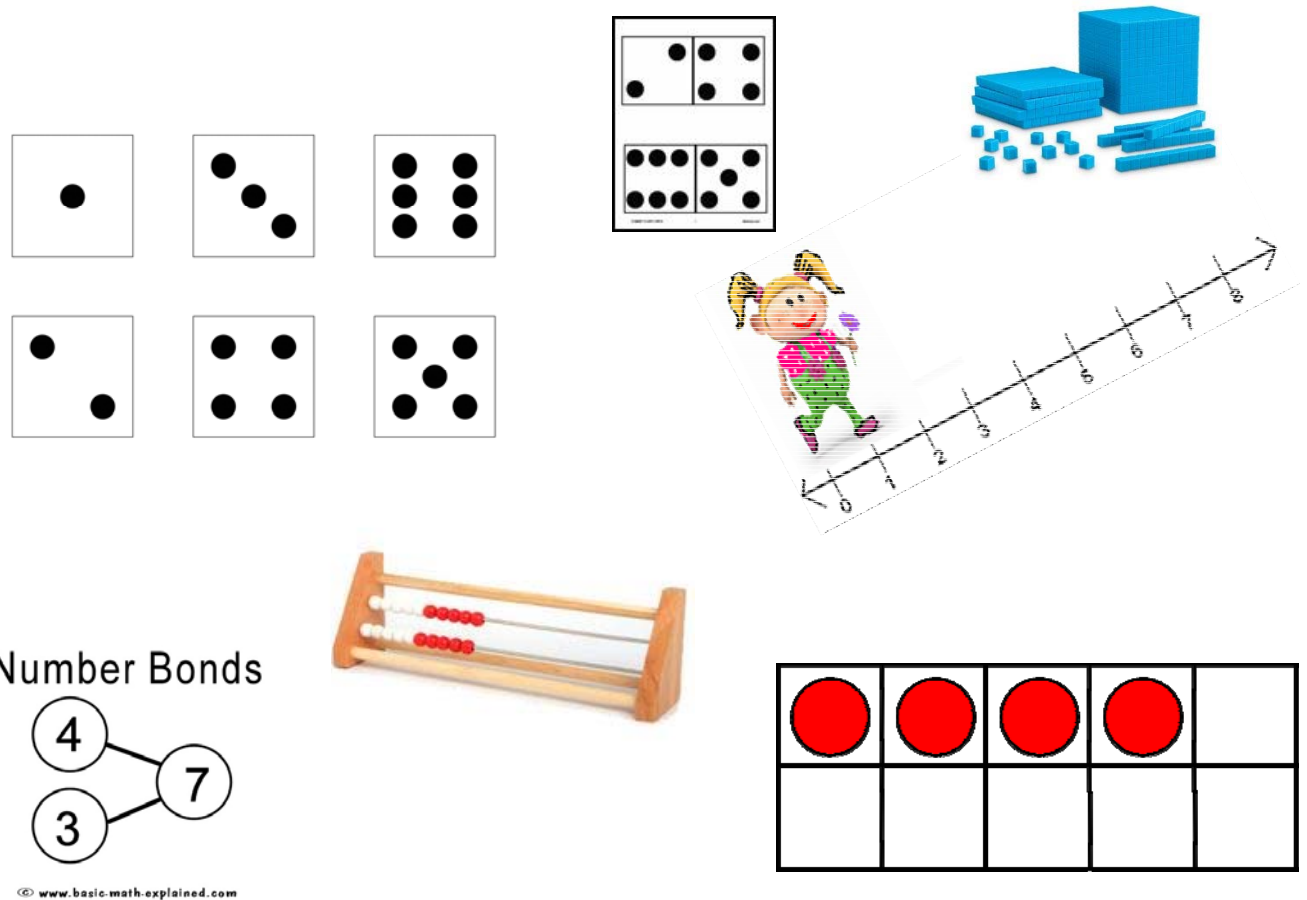
Standards PA Common Core

Standards of Mathematical Practice

Mathematical Practices

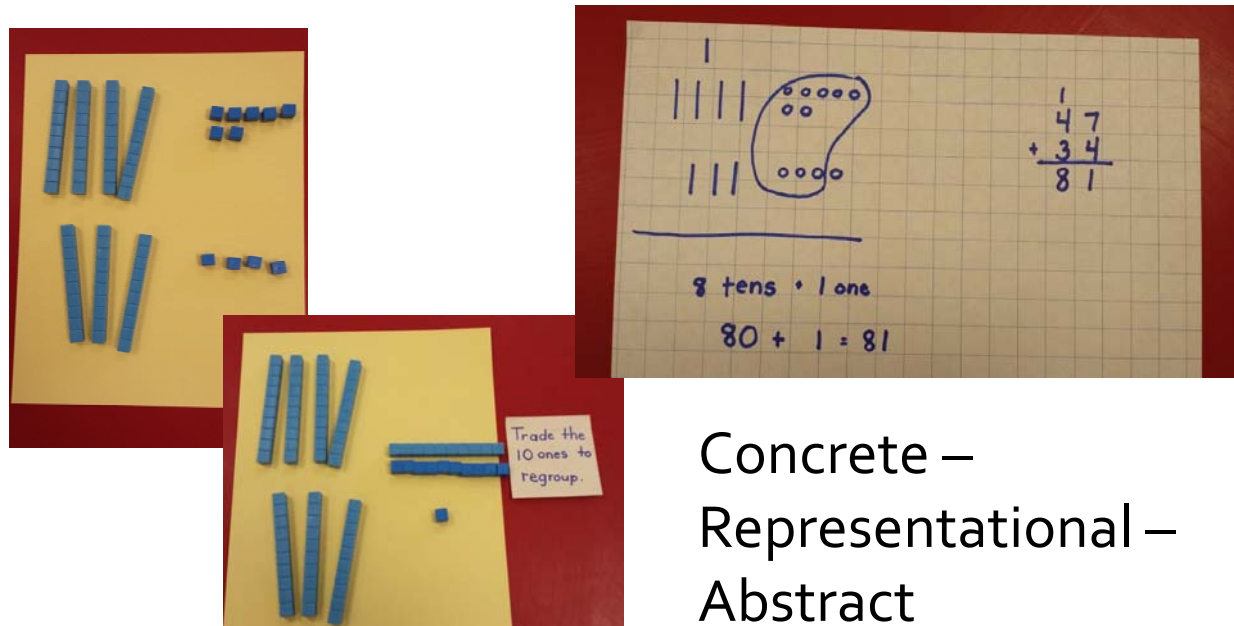
1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Developing Numeracy

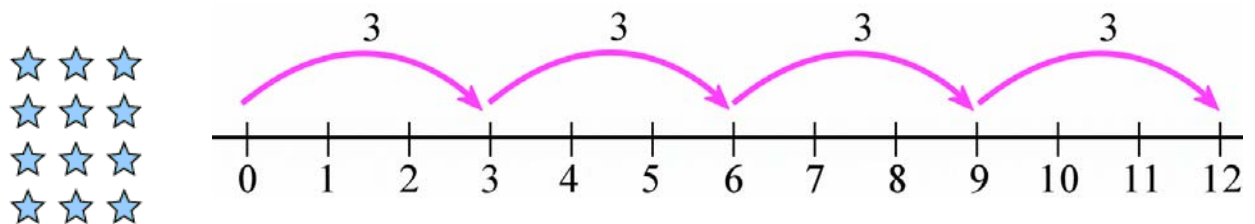


Why develop numeracy?

Computation



Concrete –
Representational –
Abstract



$$3 \times 4 = 12$$

Slide 8

MT1

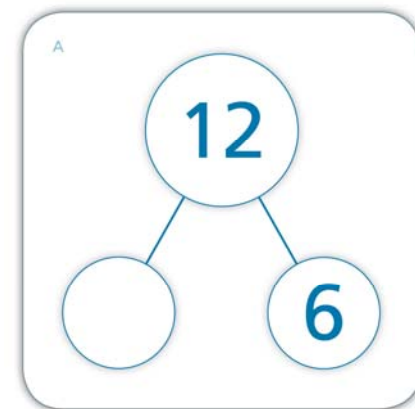
Mary Tunall, 9/26/2016

Algebraic Thinking

$$6 + \underline{\quad} = 12$$

$12 = 6 + \#$ What is #?

I need a dozen hats. I only have 6. How many more do I need?

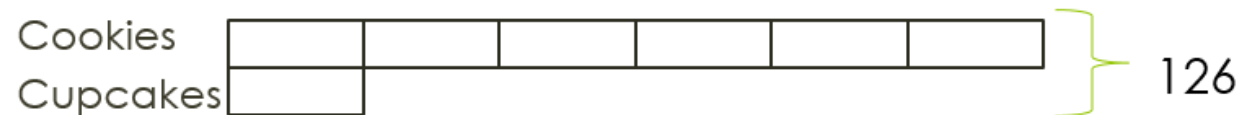


Problem Solving

Rectangular Snip

Model Drawing

- At a bake sale, 6 times as many cookies were sold as cupcakes. If there were 126 cookies and cupcakes sold at the bake sale, how many cookies were sold?



$$\text{Cupcakes} = 126 \div 7$$

$$\text{Cupcakes} = 18$$

$$\text{Cookies} = 6 \times 18 \text{ or } 126 - 18$$

$$\text{Cookies} = 108$$

Fact Fluency

Automatic recall of facts allows a student to free up working memory so that all focus is on concepts and applications.

- drill sandwich
- Repeated calculation
- Moby Max

What Can I Do
at Home?

- Practice Facts
- Dreambox

Questions?