





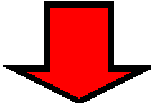
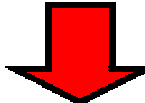

# Fall 2011 NGSSS Diagnostic Grades 3, 4, and 5 Mathematics



# Fall 2010 vs. Fall 2011 Diagnostic\*

## Elementary Results

### Item Analysis

	Reading	Math	Science
Grade 3			NA
Grade 4			NA
Grade 5			

\*Almost like comparing apples and oranges

# Grade 3 Considerations

- Two-year prior exposure to the Next Generation Sunshine State Standards
- 3 of 15 benchmarks introduced prior to the Diagnostic Test
- Increased complexity / rigor
- Ruler embedded in item question stem

# Grade 3 Mathematics Fall 2011 Diagnostic

Any school following the district scope and sequence will have covered the content listed in the table below by September 20, 2010.

Benchmark	Question Number	Content	Cognitive Complexity
MA.3.A.6.1	2	Place Value Whole Number	Low
	7	Place Value Whole Numbers	Low
	13	Whole Number Subtraction	Low
	20	Estimation of Sum	Moderate
MA.3.S.7.1	18	Pictograph	Moderate
	24	Line Plot	Moderate
	34	Analyze Data	Moderate
	35	Interpret Bar Graph	High
MA.3.A.6.2	38	Extend Pattern	Moderate

**Recommendation: Visit Learning Village Grade 3 Page to find Fall Diagnostic Remediation Resources (available Wednesday, October 20).**

# Grade 4 Considerations

- First year under Next Generation Sunshine State Standards
- 3 of 19 benchmarks introduced prior to the Diagnostic Test
- Increased complexity / rigor
- First year of exposure to Gridded Response questions

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# Grade 4 Mathematics Fall 2011 Diagnostic

Any school following the district scope and sequence will have covered the content listed in the table below by September 20, 2010.

Benchmark	Question Number	Content	Cognitive Complexity
MA.4.A.1.2	10	Whole Number Multiplication	Moderate
	18	Whole Number Multiplication	Low
MA.4.A.4.2	6	Translating Equations	Moderate
	15	One Variable Expression	Moderate
MA.4.A.6.1	4	Whole Number Computation	High
	27	Place Value Whole Numbers	Moderate
	40	Sales Tax	Moderate

Recommendation: Visit [Learning Village Grade 4 Page](#) to find: Gridded Response Instructional Video and Fall Diagnostic Content Remediation Resources (available Wednesday, October 20).

# Grade 5 Considerations

- First year under Next Generation Sunshine State Standards
- 2 of 18 benchmarks introduced prior to Diagnostic Test
- Increased complexity / rigor
- First year with Reference Sheet
- No more formula boxes embedded within questions

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# Grade 5 Mathematics Fall 2011 Diagnostic

Any school following the district scope and sequence should have covered the content listed in the table by September 20, 2010.

Benchmark	Question Number	Content	Cognitive Complexity
MA.5.A.1.1	22	Equivalent Expressions	Moderate
	31	Long Division	Moderate
MA.5.A.1.4	15	Real World Division Problem	Moderate
	16	Real World Division Problem	Moderate
	33	Choose Reasonable Scale	High

Recommendation: Visit [Learning Village Grade 5 Page](#) to find [Gridded Response Instructional Video](#) and [Fall Diagnostic Content Remediation Resources](#) (available Wednesday, October 20).

# Fall Elementary Mathematics Diagnostic Results

## Item Percent Correct: Looking for Patterns

### Some Question for Schools

- **What benchmarks had items that were higher/lower than the District?**
- **What items were higher/lower than the District?**
  - **What was the content focus?**
  - **Was the content new?**
  - **Was the content already instructed?**
  - **Will the content be covered later in the year?**
  - **Did the item contain new or unfamiliar formats**
    - **gridded response**
    - **formula selection and application**
  - **What other information do teachers have about student performance on the content focus and/or benchmark?**

# Overall Considerations

Grade 3	<ul style="list-style-type: none"><li>•Two-year prior exposure to the Next Generation Sunshine State Standards</li><li>•3 of 15 benchmarks introduced prior to the Diagnostic Test</li><li>•Increased complexity / rigor</li><li>•Ruler embedded in item question stem</li></ul>
Grade 4	<ul style="list-style-type: none"><li>•First year under Next Generation Sunshine State Standards</li><li>•3 of 19 benchmarks introduced prior to the Diagnostic Test</li><li>•Increased complexity / rigor</li><li>•First year of exposure to Gridded Response questions</li></ul>
Grade 5	<ul style="list-style-type: none"><li>•First year under Next Generation Sunshine State Standards</li><li>•2 of 18 benchmarks introduced prior to Diagnostic Test</li><li>•Increased complexity / rigor</li><li>•First year with Reference Sheet</li><li>•No more formula boxes embedded within questions</li></ul>

# Implications for Grades 3 – 5 Mathematics

- Prior exposure to Next Generation Sunshine State Standards provides foundational skills
- Increased complexity / rigor of standards requires adjustment in instructional focus
- Transition to conceptual understanding prior to algorithm introduction (content coverage begins with the “why” rather than “what”)
- Gridded response practice is essential
- Reading in the content area is vital to identifying both the skill and the process
- Encourage teacher attendance at Content Trainings (1<sup>st</sup> series begins October 15<sup>th</sup>, check Course Registration for details)

# Grade 4 Science

## NGSSS Benchmarks not addressed in current text

Big Idea 1	Big Idea 2	Big Idea 3	Big Idea 5	Big Idea 6	Big Idea 8	Big Idea 9	Big Idea 10	Big Idea 16	Big Idea 17
SC.4.N.1.1	SC.4.N.2.1	SC.4.N.3.1	SC.4.E.5.5	<b><u>SC.4.E.6.5</u></b>	<b><u>SC.4.P.8.1</u></b>	SC.4.P.9.1	<b><u>SC.4.P.10.1</u></b>	SC.4.L.16.1	SC.4.L.17.1
SC.4.N.1.2				SC.4.E.6.6	<b><u>SC.4.P.8.2</u></b>		<b><u>SC.4.P.10.2</u></b>	SC.4.L.16.2	
SC.4.N.1.3					SC.4.P.8.3			SC.4.L.16.3	
SC.4.N.1.4								SC.4.L.16.4	
SC.4.N.1.5									
SC.4.N.1.6									
SC.4.N.1.7									
SC.4.N.1.8									

- 42 total NGSSS benchmarks in 4<sup>th</sup> grade science
- 19 benchmarks are not addressed in current text
- 5 benchmarks are minimally addressed, (these are bold & underlined in chart)
- 57% of NGSSS benchmarks for Grade 4 Science must be addressed outside of text (resources available on Learning Village)

# Contact Information

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**Check Course Registration for Content Training opportunities.**