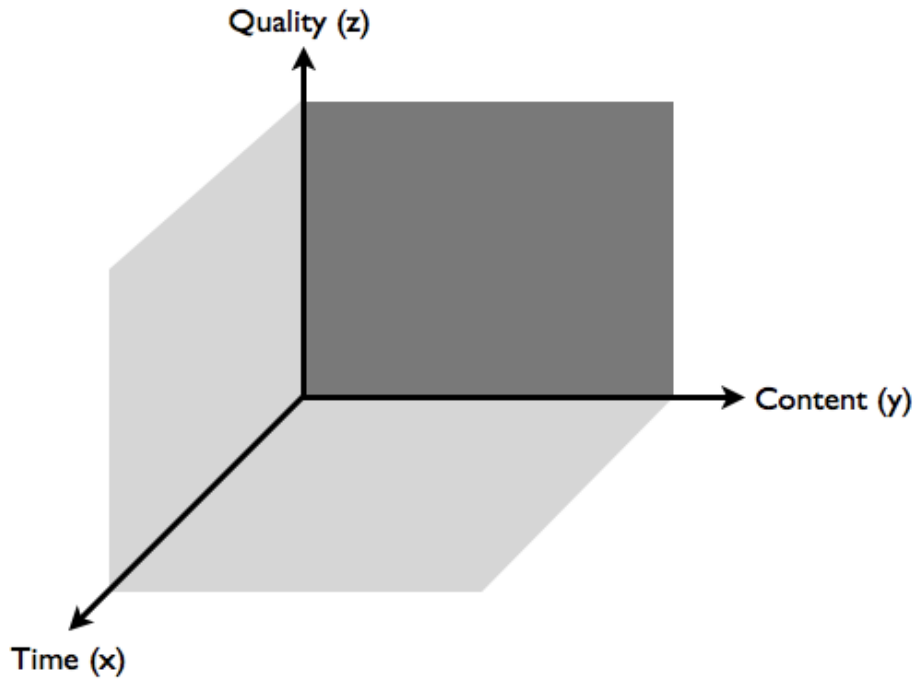


**Predicting End of Year Mathematics Achievement
with
Opportunity to Learn and CBM Measures:
Year 1 Report**

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Arizona State University
Gerald Tindal
University of Oregon

Opportunity to Learn (OTL) the Intended Curriculum

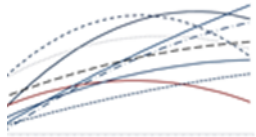


Definition: Opportunity to Learn

The degree to which a teacher dedicates **instructional time** and **content coverage** to the intended curriculum objectives emphasizing higher-order **cognitive processes**, evidence-based **instructional practices**, and **alternative grouping formats**.

(Kurz, 2011)

**A unified conceptualization of OTL
based on 50+ years of empirical research.**



NCAASE Multiple Measures Study where OTL is featured as a Process Variable

Our Key Research Questions

- Do students with disabilities have equal access to the general curriculum in comparison to their classmates without disabilities?
- What is the relationship between opportunity to learn and academic achievement in mathematics for all students? Is the relationship different for students with and without disabilities?
- To what extent are variations in growth for students with and without disabilities related to OTL?

MyiLOGS: Calendar for Reporting Content Covered & Instructional Time

MyiLOGS

Populate
Reports
Print Lessons
Class Profile
Print View

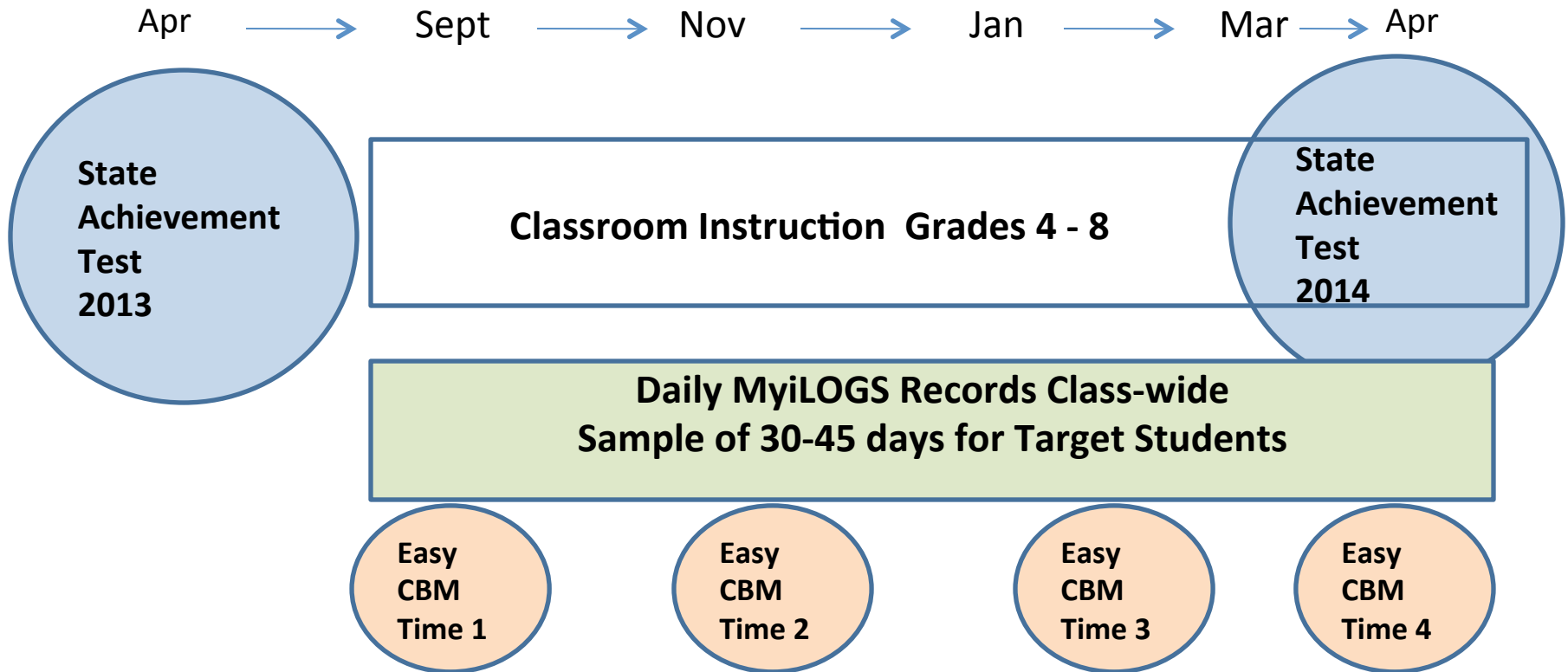
School: Desert Meadows Name: Teacher turquoise1005m Class: Tunnell Gr. 8 Math
View: Calendar
A- A+

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December 2010
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Skills	Monday	Tuesday	Wednesday	Thursday	Friday
S1 Number/ Operations			S2C3PO2 Counting-factorial notation 15 min.	S2C2PO1 Theoretical/experimental 15 min.	Testing 60 min. 3 Time Not Available for Instruction 15 min. Concept Review Bell Work 5 min.
S1C1PO1 Compare/order S1C1PO2 Classify rational/irrational S1C1PO3 model read numbers S1C1PO4 model/solve absolute value S1C2PO1 Factors/multiples/prime S1C2PO2 Rational number effects S1C2PO3 Percent Inc., dec, simple interest S1C2PO4 Std/scientific notation conver. S1C2PO5 Simplify expression S1C3PO1 Estimate1 S1C3PO2 Estimate on number line			S2C2PO1 Theoretical/experimental 15 min. S2C2PO3 Sample space for dep/indep 15 min. S2C2PO2 Compare outcome/prediction 15 min. Concept Review Bell Work 10 min. Time Not Available for Instruction 10 min.	S2C2PO2 Compare outcome/prediction 15 min. S2C2PO3 Sample space for dep/indep 15 min. S2C3PO2 Counting-factorial notation 15 min. Concept Review Bell Work 10 min. Time Not Available for Instruction 10 min.	
S2 Data Analy, Prob., Discrete Math			x	x	x
S3 Patterns, Algebra, and Functions			x	x	x
S4 Geometry and Measurement	Time Not Available for Instruction 40 min. 6	Time Not Available for Instruction 30 min. 7	S3C3PO2 Evaluate expression 30 min. 8	S3C3PO2 Evaluate expression 45 min. 9	S3C3PO1 Alg. expressions, equations, inequalities 15 min. 10
S5 Structure, Logic	S2C2PO2 Compare outcome/prediction 40 min.	S3C3PO1 Alg. expressions, equations, inequalities 15 min. S3C3PO2 Evaluate expression 15 min.	Time Not Available for Instruction 50 min.	Time Not Available for Instruction 35 min.	S3C3PO3 Linear equations and inequalities 20 min.
Custom Skills/Activities Drag skills from the calendar here to delete them.					

Multiple Measures Study Design

Four 2-year Longitudinal Cohorts: 4-5, 5-6, 6-7, & 7-8



Multiple Measures Study: Year 1 Findings

- Teachers (N = 69) and students (N = 261; 136 SWD + 125 SWoD) from AZ & OR schools grades 4th-8th .
- A regression analysis showed OTL, easyCBM, grade, and special education status predicted nearly **67% of the variance in students' end of year mathematics achievement as measured by the OR Assessment of Knowledge & Skills in Math**. By comparison, this same set of measures accounted for **61% of the variance in students' end of year mathematics achievement on the AZ Instructional Measurement of Skills test**.
- Inspection of the regression results showed
 - **CBM measures are the best single predictor of end-of-year achievement (46% of the variance)**
 - **OTL indices of time, content, cognitive processes, and instructional practices contributed an additional 10% to the prediction of end of year achievement for students in mathematics.**

Thank You & Stay in Touch

<http://www.ncaase.com>

www.myilogs.com

www.easycbm.com

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