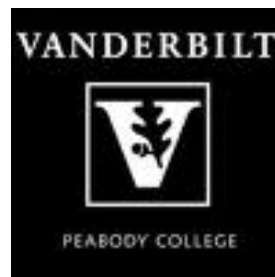


MyiLOGS: A Measure of Students' Opportunity to Learn The Intended Curriculum

Alexander Kurz - Vanderbilt University's
Peabody College

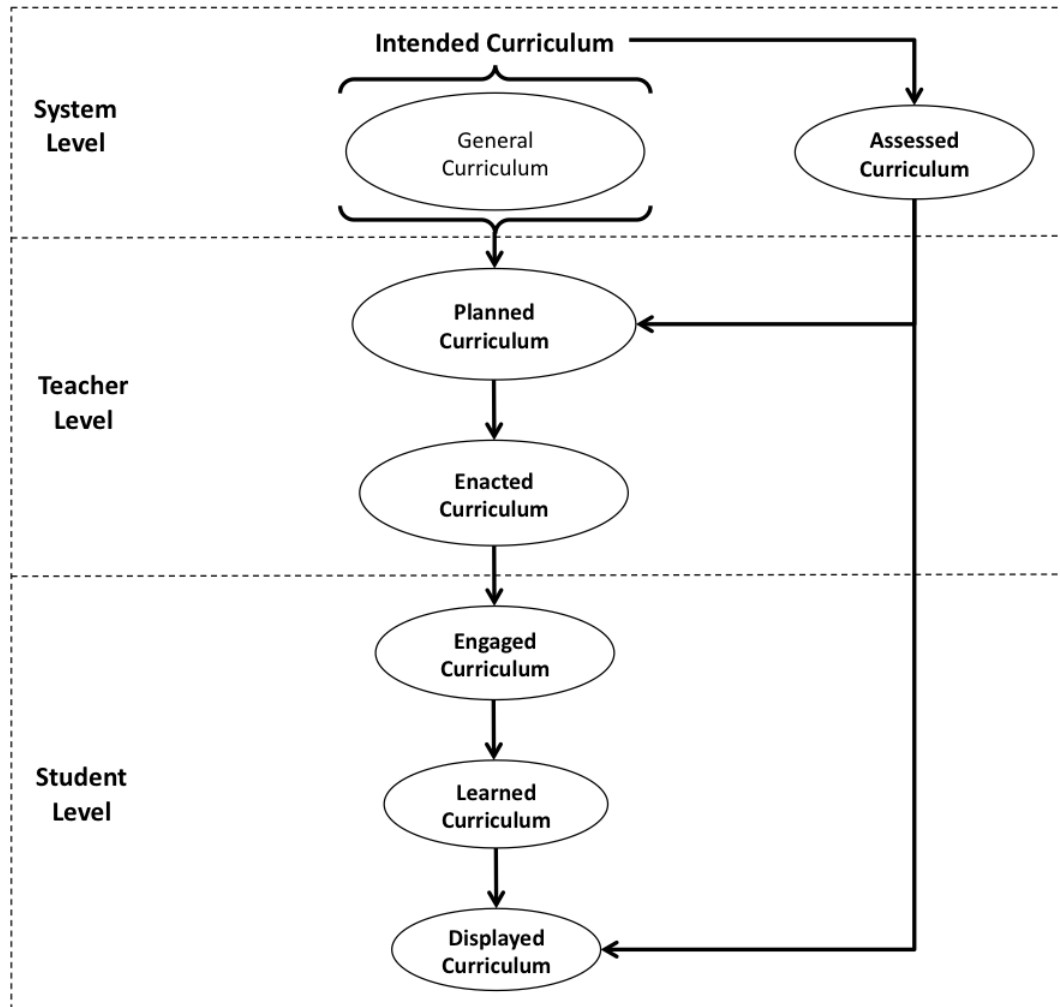




The MyiLOGS software (Kurz, Elliott, & Shrago, 2009) is funded by the U.S. Department of Education (USDE) as part of the Modified Alternate Assessment Performance System (MAAPS; Elliott, Kettler, & Zigmond, 2009-2011) grant. The comments and positions of the authors, however, do not represent the USDE.



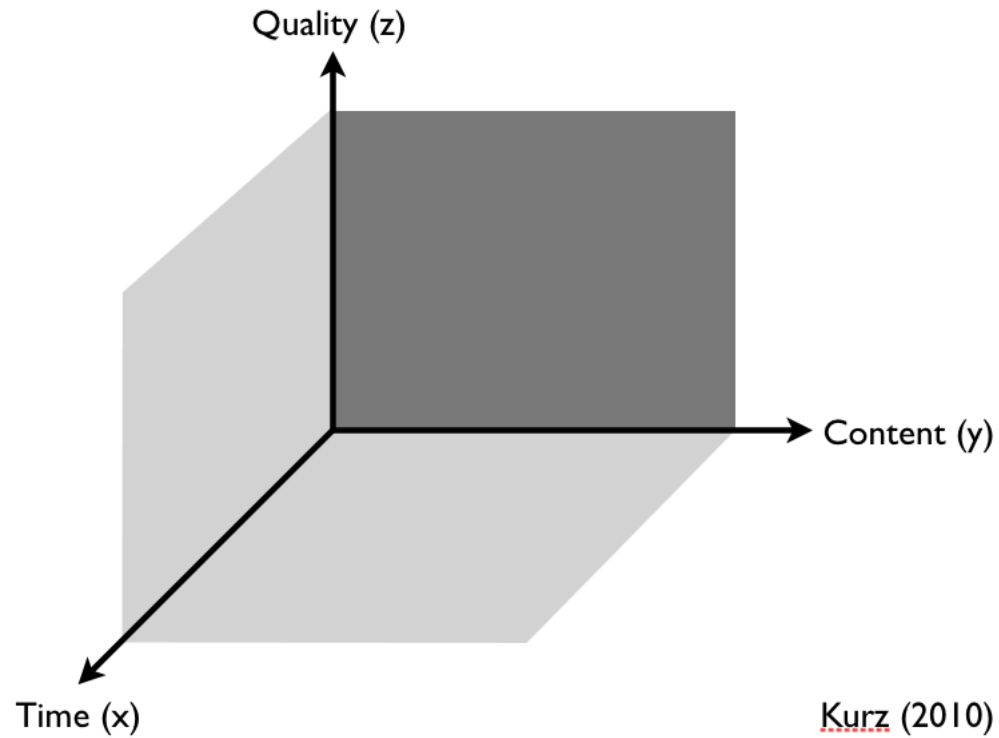
What is the Opportunity-to-learn (OTL)?



Intended Curriculum Model for General Education (Kurz, 2010)



What are the key dimensions of instruction?





































MyiLOGS: A Measure of OTL



- **My instructional Learning Opportunities Guidance System** (MyiLOGS; Kurz, Elliott, & Shrago, 2009) allows teachers to document their planned and enacted instruction along their state-specific intended curriculum.
- OTL is documented along **three key dimensions** (i.e., time, content, and quality) at the **classroom and individual student level**. MyiLOGS captures:
 - Coverage of state-specific subskills
 - Time spent on each subskill
 - Cognitive expectations for student learning
 - Use of evidence-based instructional practices
 - Use of instructional grouping formats
 - Student engagement

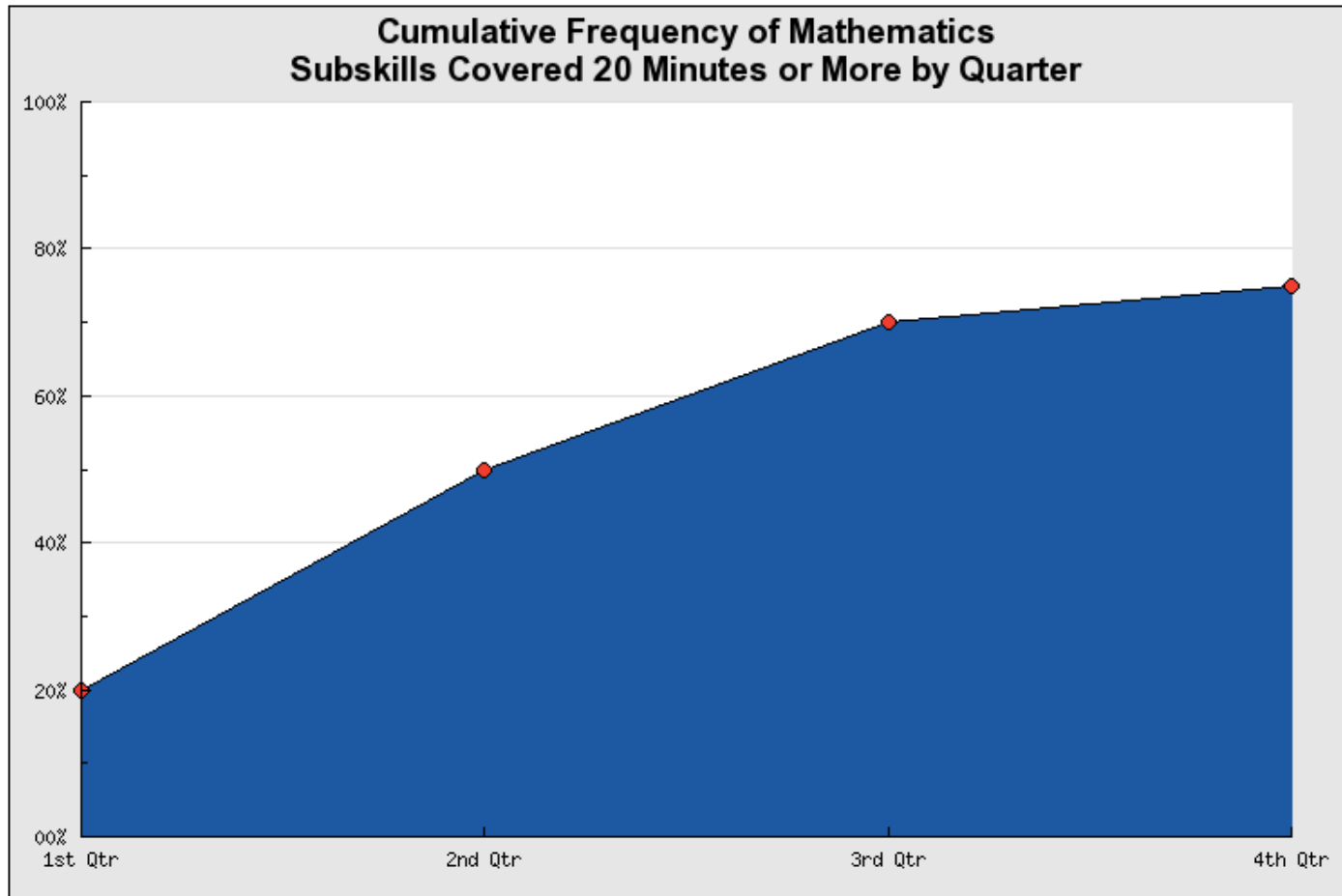


MyiLOGS: The Calendar

| School: Demo PA Middle School Name: Demo Teacher Class: OLD Kurz Gr 8 Math DEMO | | | | | View: Calendar | A- A+ |
|---|---|--|---|--|---|---|
| Return to main page | ← October 2010 → | | | | Return to main page | |
| Skills | Monday | Tuesday | Wednesday | Thursday | Friday | |
| M8.A Numbers and Operations | | | | | | 1 |
| M8.A.1.1.1 Scientific notation, expon. Forms | | | | | |    |
| M8.A.1.1.2 Relation betw square & square root | | | | | | |
| M8.A.2.1.1 Simplify numeric expressions | 4 | 5 | 6 | 7 | 8 | 8 |
| M8.A.2.2.1 Solve problems involving percents |  |    |  |    | |  |
| M8.A.2.2.2 Represent or solve rate problems | 11 | 12 | 13 | 14 | 15 | 15 |
| M8.A.3.1.1 Round up or round down | | | | | | |
| M8.A.3.1.2 Exact answer vs estimation |    |  |    | |  |    |
| M8.A.3.2.1 Estimate answers invol. percents | 18 | 19 | 20 | 21 | 22 | 22 |
| M8.A.3.3.1 Integers, fractions, decimals |  |    |  |    | |  |
| M8.B Measurement | | | | | | |
| M8.C Geometry | 25 | 26 | 27 | 28 | 29 | 29 |
| M8.D Algebraic Concepts |    |  |    | |  |    |

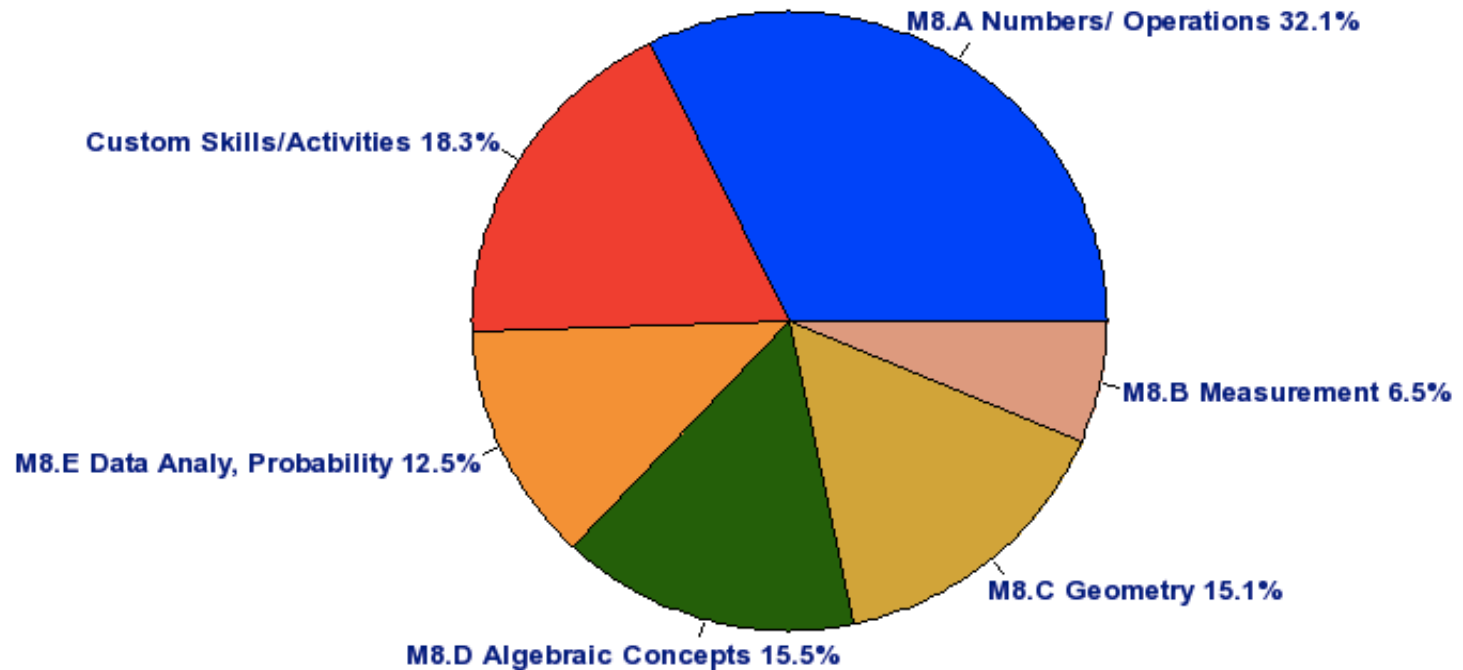


MyiLOGS: Instructional Reports



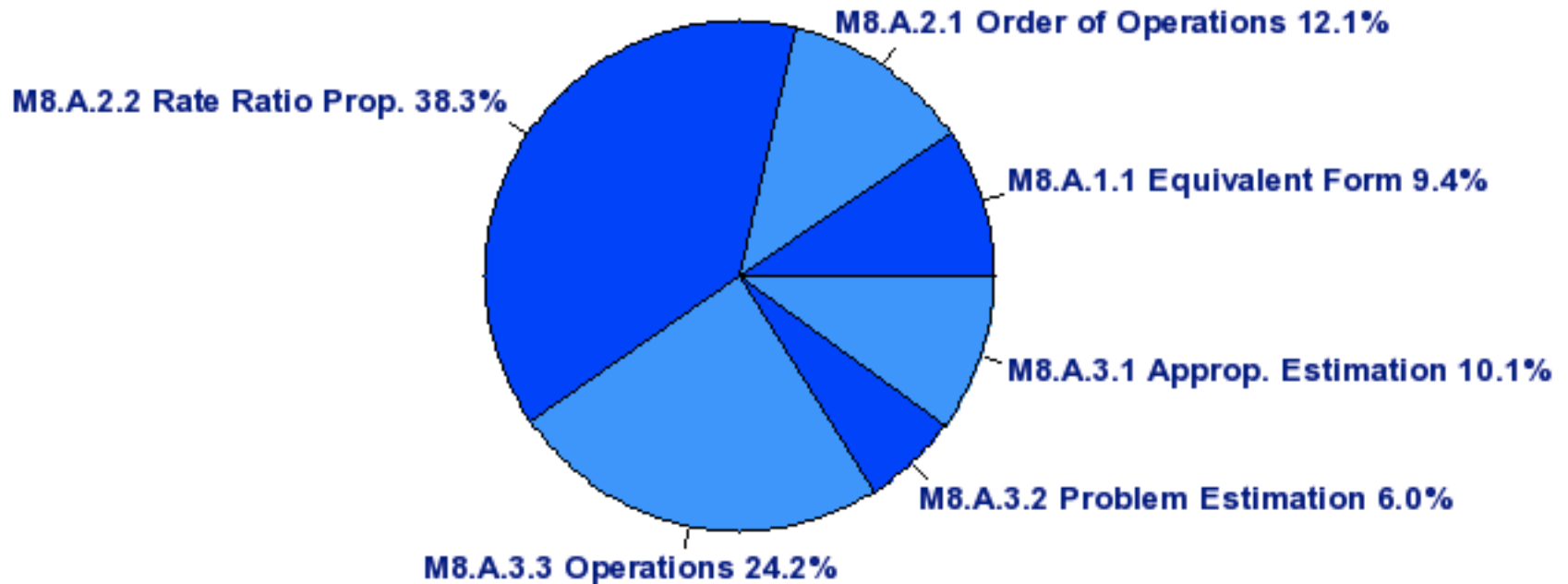
MyiLOGS: Instructional Reports

Time Allocation by Skill



MyiLOGS: Instructional Reports

Subskills of M8.A Numbers/ Operations



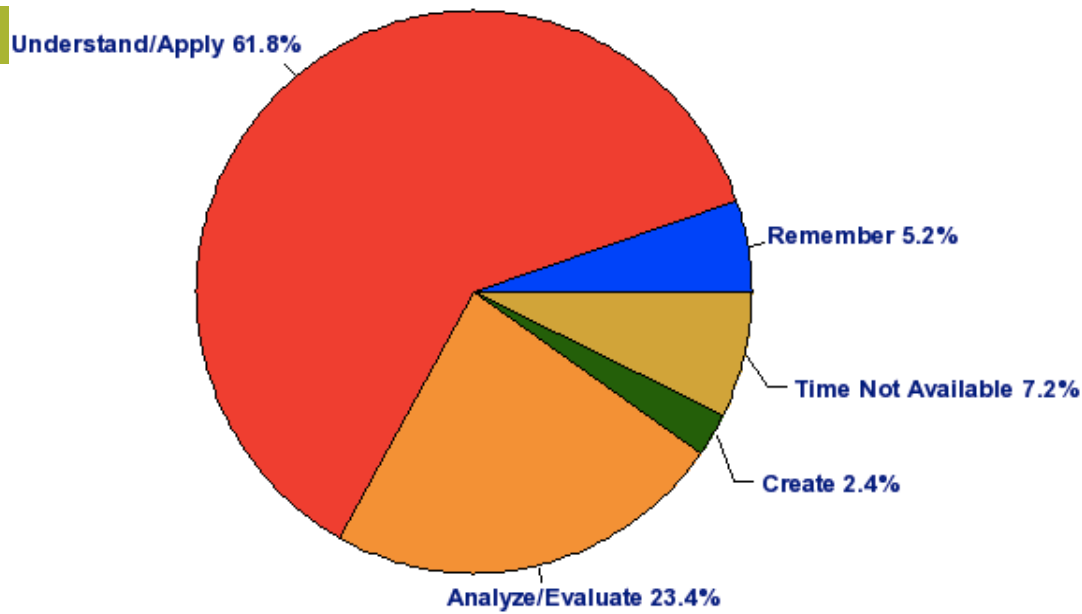
| Skills | % by Skill/ Subskill | Hours Total | Minutes Total | Calendar Minutes by Quarter | | | |
|--|-------------------------|----------------|------------------|-----------------------------|------------|------------|------------|
| | | | | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| M8.A Numbers/ Operations | 32.1% | 12 | 745 | 480 | 225 | 40 | 0 |
| M8.A.1.1 Equivalent Form | 3.0% | 1 | 70 | 30 | 20 | 20 | 0 |
| M8.A.2.1 Order of Operations | 3.9% | 2 | 90 | 45 | 45 | 0 | 0 |
| M8.A.2.2 Rate Ratio Prop. | 12.3% | 5 | 285 | 285 | 0 | 0 | 0 |
| M8.A.3.1 Approp. Estimation | 3.2% | 1 | 75 | 15 | 60 | 0 | 0 |
| M8.A.3.2 Problem Estimation | 1.9% | 1 | 45 | 15 | 30 | 0 | 0 |
| M8.A.3.3 Operations | 7.8% | 3 | 180 | 90 | 70 | 20 | 0 |
| M8.B Measurement | 6.5% | 3 | 150 | 0 | 0 | 60 | 90 |
| M8.B.1.1 Conversion | 0.0% | 0 | 0 | 0 | 0 | 0 | 0 |
| M8.B.2.1 Missing side/angle | 0.6% | 0 | 15 | 0 | 0 | 0 | 15 |
| M8.B.2.2 Perim., Circum, Area, Vol | 5.8% | 2 | 135 | 0 | 0 | 60 | 75 |
| M8.C Geometry | 15.1% | 6 | 350 | 0 | 110 | 0 | 240 |
| M8.C.1.1 Properties | 9.9% | 4 | 230 | 0 | 90 | 0 | 140 |
| M8.C.1.2 Pythagorean | 4.3% | 2 | 100 | 0 | 20 | 0 | 80 |
| M8.C.3.1 Ordered Pairs | 0.9% | 0 | 20 | 0 | 0 | 0 | 20 |
| M8.D Algebraic Concepts | 15.5% | 6 | 360 | 0 | 120 | 210 | 30 |
| M8.D.1.1 Function Ext, Analyze | 2.6% | 1 | 60 | 0 | 20 | 40 | 0 |
| M8.D.2.1 Equation, Inequal, Express. | 6.5% | 3 | 150 | 0 | 60 | 60 | 30 |
| M8.D.2.2 Model problems | 3.9% | 2 | 90 | 0 | 40 | 50 | 0 |
| M8.D.4.1 Coord. Relationships | 2.6% | 1 | 60 | 0 | 0 | 60 | 0 |
| M8.E Data Analy, Probability | 12.5% | 5 | 290 | 0 | 50 | 240 | 0 |
| M8.E.1.1 Choose/interpret data | 3.2% | 1 | 75 | 0 | 30 | 45 | 0 |
| M8.E.3.1 Probability of event | 1.1% | 0 | 25 | 0 | 10 | 15 | 0 |
| M8.E.3.2 Combin/Permutation | 7.3% | 3 | 170 | 0 | 0 | 170 | 0 |
| M8.E.4.1 Make Inferences | 0.9% | 0 | 20 | 0 | 10 | 10 | 0 |
| Custom Skills/Activities | 18.3% | 7 | 425 | 40 | 95 | 50 | 240 |
| Journal Time | 0.0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Testing | 6.5% | 3 | 150 | 40 | 30 | 40 | 40 |
| Math Contest Game | 3.2% | 1 | 75 | 0 | 45 | 10 | 20 |
| Discussion | 1.3% | 1 | 30 | 0 | 20 | 0 | 10 |
| Advisory | 0.0% | 0 | 0 | 0 | 0 | 0 | 0 |
| State Testing | 5.2% | 2 | 120 | 0 | 0 | 0 | 120 |
| Reward Day | 2.2% | 1 | 50 | 0 | 0 | 0 | 50 |
| Review/Reinforcement of Previous Skill | 0.0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Homework Prep/Practice | 0.0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Transitions | 0.0% | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTALS: | 100% | 39 | 2320 | 0 | 520 | 600 | 600 |

Cognitive Processes: 43 Day Sample

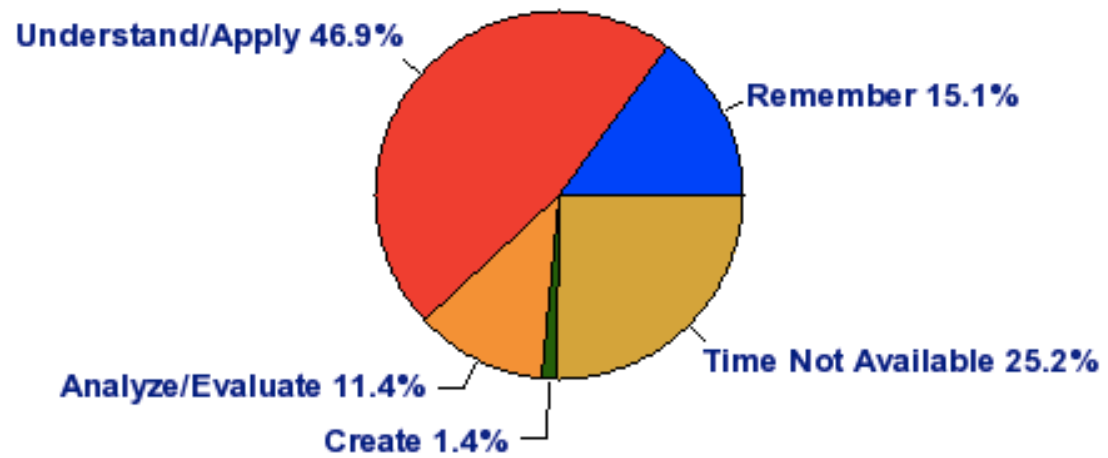
Time in Hours Cumulative

Kurz & Elliott
































9-21-10



Fulsom, James: 43 Day Sample



MyiLOGS: The Calendar

| School: Demo PA Middle School Name: Demo Teacher Class: OLD Kurz Gr 8 Math DEMO | | | | | View: Calendar | A- A+ |
|---|---|--|---|--|---|---|
| Return to main page | ← October 2010 → | | | | Return to main page | |
| Skills | Monday | Tuesday | Wednesday | Thursday | Friday | |
| M8.A Numbers and Operations | | | | | | 1 |
| M8.A.1.1.1 Scientific notation, expon. Forms | | | | | |    |
| M8.A.1.1.2 Relation betw square & square root | | | | | | |
| M8.A.2.1.1 Simplify numeric expressions | 4 | 5 | 6 | 7 | 8 | 8 |
| M8.A.2.2.1 Solve problems involving percents |  |    |  |    | |  |
| M8.A.2.2.2 Represent or solve rate problems | 11 | 12 | 13 | 14 | 15 | 15 |
| M8.A.3.1.1 Round up or round down | | | | | | |
| M8.A.3.1.2 Exact answer vs estimation |    |  |    | |  |    |
| M8.A.3.2.1 Estimate answers invol. percents | 18 | 19 | 20 | 21 | 22 | 22 |
| M8.A.3.3.1 Integers, fractions, decimals |  |    |  |    | |  |
| M8.B Measurement | | | | | | |
| M8.C Geometry | 25 | 26 | 27 | 28 | 29 | 29 |
| M8.D Algebraic Concepts |    |  |    | |  |    |



MyiLOGS: The Calendar

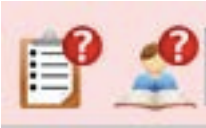
| School: Demo PA Middle School Name: Demo Teacher Class: OLD Kurz Gr 8 Math DEMO View: Calendar A- A+ | | | | | |
|---|--------|---------|-----------|----------|-------------------------------|
| Return to main page ← October 2010 → Return to main page | | | | | |
| Skills | Monday | Tuesday | Wednesday | Thursday | Friday |
| M8.A Numbers and Operations | | | | | M8.B.1.1.3 Convert time 1 |
| M8.B Measurement | | | | | |
| M8.B.1.1.1 Convert metric measurements | | | | | |
| M8.B.1.1.2 Convert customary measurements | 4 | | 6 | 7 | 8 |
| M8.B.1.1.3 Convert time | | | | | |
| M8.B.1.1.4 Convert Fahrenheit/Celsius | | | | | |
| M8.B.2.1.1 Degrees in int. angles of a polygon | 11 | | 13 | 14 | 15 |
| M8.B.2.1.2 Int. angle of a regular polygon | | | | | |
| M8.B.2.1.3 Sides of a polygon | | | | | |
| M8.B.2.2.1 Surface area of cubes & rect. prisms | 18 | 19 | 20 | 21 | 22 |
| M8.B.2.2.2 Volume of cubes & rect. prisms | | | | | |
| M8.B.2.2.3 Appropriate type of measurement | 25 | 26 | 27 | 28 | 29 |
| M8.C Geometry | | | | | |
| M8.D Algebraic Concepts | | | | | |

×

Enter an estimated time for this skill:



MyiLOGS: Enacted Details



| | | | |
|---------------------------------------|---------------------------|----------------------|------------------------|
| School: Demo PA Middle School | Date: Wed., Sep 15 | Class Enacted | Student Enacted |
| Teacher: Demo Teacher | | | |
| Class: TRAINING Kurz Gr 8 Math | | | |

[Return to Calendar and add / delete skills](#)
[Save time allocation](#)
[Clear values](#)

Estimated Time Allocation Across Cognitive Process Dimensions for: **TRAINING Kurz Gr 8 Math**

| Skill | Remember | Understand/Apply | Analyze/Evaluate | Create | Sum | Calendar Minutes |
|------------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------|------------------|
| M8.A.3.1.1 Round up or round down | <input type="text" value="0"/> | <input type="text" value="20"/> | <input type="text" value="20"/> | <input type="text" value="20"/> | 60 | 60 |
| Time not available for instruction | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | | |
| Update Totals | | | | | Total: | |
| | | | | | 60 | 60 |

Estimated Time Allocation Across Instructional Practices for: **TRAINING Kurz Gr 8 Math**

| Teacher Actions | Individual | Small Group | Whole Class | Sum |
|------------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------|
| Provided explicit instruction | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="20"/> | 20 |
| Provided visual representations | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="20"/> | 20 |
| Taught problem solving strategies | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="20"/> | 20 |
| Elicited 'think aloud' | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | 0 |
| Provided guided feedback | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | 0 |
| Used independent practice | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | 0 |
| Other instructional practices | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | 0 |
| Conducted assessment | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | 0 |
| Time not available for instruction | <input type="text"/> | <input type="text"/> | <input type="text"/> | 0 |
| Update Totals | | | | |
| | | | | Calendar Total: 60 |
| | | | | 60 |



MyiLOGS: Enacted Details

Engagement Matrix for: **TRAINING Kurz Gr 8 Math**

| Class Engagement | Learning Goal Attainment |
|--|--|
| <input type="radio"/> Not Engaged (0%) | <input type="radio"/> No effort or product observed (0%) |
| <input type="radio"/> Low % of time (<50%) | <input type="radio"/> Low effort or limited portion of work completed (<50%) |
| <input type="radio"/> Moderate % of time (50% - 80%) | <input checked="" type="radio"/> Moderate effort or moderate portion of work completed (50% - 80%) |
| <input checked="" type="radio"/> High % of time (>80%) | <input type="radio"/> High effort or substantial portion of work completed (>80%) |



Implications and Applications

Present!

- Provides formative feedback that can be used to make changes in instruction
- Indicates the degree of instructional differentiation
- Supports the instructional process at the planning and implementation stage
- Supports communication between key instructional personnel (i.e., general and special education teachers).

Future?

- Assist in the implementation of a specialized intervention curriculum at the tertiary RTI level.
- Include in so-called “plans of assistance” to support educators whose students fail to make adequate educational progress
- Include in a formula for evaluating teacher effectiveness
 - Student achievement
 - Teacher instruction



Contact Information



Please visit www.myilogs.com for more information.

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steve.elliott@vanderbilt.edu

