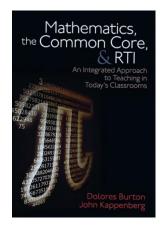
National Council of Teachers of Mathematics Annual Conference New Orleans, LA.

542- Implementing Common Core Mathematics and RtI in Your Classroom

Friday, April 11, 2014: 3:30 PM-4:30 PM Grand Ballroom A (Hilton) Dolores T. Burton

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Sheltered Instruction Observational Protocol Checklist

Lesson Objectives

1	Math
ĺ	Language
Buil	ing Background
[Prior in-school learning
ſ	Out-of-school knowledge of mathematics
Instructional Scaffolding	
	Modeling mathematical procedures
	Modeling academic language
	Guided practice of new math learning
	Independent practice
Grouping Scaffolding	
	Whole class
1	Small group
	Pair work
ſ	Independent work
Lan	wage and Methematics Content Integration
	uage and Mathematics Content Integration Listening
	Speaking
	Reading
	Writing
,	Witting
Practice and Application	
	Hands-on practice
	Personally and culturally relevant application
	High level of engagement

Assessment | Formative: individual, group | Summative | Written | Oral | Electronic | Formative: In Burton and Kappenberg (2013) Adapted from Echevarria, Vogt, & Short (2012).

Implementing Common Core Mathematics and RtI in Your Classroom

Some guiding principles for Tier 1 interventions are:

- 1. Identify a clear goal for each curriculum area: mathematics language and concepts.
- 2. Identify any key vocabulary that may have multiple meanings (social vs. academic) and provide explicit instruction.
- 3. Model appropriate mathematics vocabulary during discussions with the class and the individual student.
- 4. Identify prior experiences as they relate to the students' culture and pose problems in familiar contexts.
- 5. Provide visuals both for instruction and student responses (use manipulative materials whenever possible).
- 6. Avoid using symbols and abbreviations unless the student has a vocabulary chart with the abbreviation or symbol connected to the word it represents.
- 7. New vocabulary should have a minimum of six varied exposures during a lesson and ideally a total of 30 or more exposures during the following month (Capps & Pickreign, 1993)
- 8. Research-based, carefully structured, and highly engaging.

(Burton & Kappenberg, 2013)

Common Core Content 4.MD.2

Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale. (CCSSO, 2010 para. 2)

Math Think Alouds reference: http://education.umn.edu/NCEO/OnlinePubs/ELLsDis16/

Source:

Burton, D. T., & Kappenberg, J. (2013). *Mathematics, the Common Core and RtI: An integrated approach to teaching in today's classrooms*. Thousand Oaks, CA: Corwin Press.

Burton, D. T., & Kappenberg, J. (2011). *The complete guide to RtI: An implementation toolkit*. Thousand Oaks, CA: Corwin Press.

For more information access the trailer at http://www.youtube.com/watch?v=Qa03Uj2JGdo or email dr.dolores.burton@gmail.com or kappenberg@aol.com.