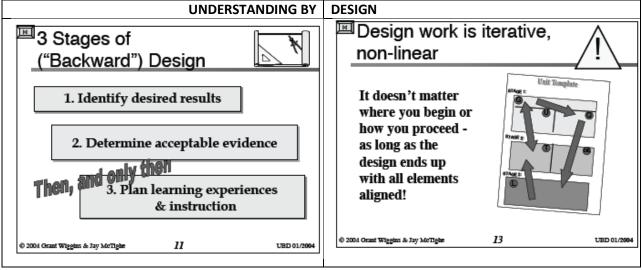
OBJECTIVE: Thorough planning of a CC Standard with all components of Competency.

The Format based on Depth of Knowledge, Math Practices, Understanding by Design

MP1	MP2	MP3	MP4
Make sense of	Reason abstractly	Construct viable	Model with
problems and	and quantitatively	arguments and	mathematics
persevere in solving		critique the	
them		reasoning of others	
MP5	MP6	MP7	MP8
Use appropriate	Attend to precision	Look for and make	Look for and express
tools strategically	_	use of structure	regularity in
			repeated reasoning

Top 10 list of learning influences on achievement based on thousands of Meta-analysis (circa 250 million students over the past 30 years in US and English speaking countries):

- 1. Student Self Assessment/ along High Expectations (144%) 2. Piagetian programs (128%)
- 3. Response Intervention (107%) 4. Teacher Credibility (90%) 5. Providing Formative Evaluation (90%) 6. Micro-Teaching (88%) 7. Classroom discussion (82%) 8. Teacher Clarity (75%) 9. Feedback (75%) 10. Reciprocal Teaching (75%)
 - →%= Percentage of Learning Improvement in Visible Learning, by John Hattie



REVISED BLOOM'S TAXONOMY (Anderson & Krathwohl, 2000):

Remember > Unders	stand → Apply →	Analyze →	Evaluate ->	Create 8-)
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WEBB'S DEPTH OF KNOWLEDGE (1997):

Recall	Skill/Concept	Strategic Thinking	Extended Thinking

NEW TAXONOMY EDUCATIONAL OBJECTIVES (Marzano & Kendall, 2007):

		`	, ,
Retrieval	Comprehension	Analysis	Knowledge Utilization

Understanding by Design – Backward Planning

Subject Area:	Time Frame:
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Stage 1 - Desired Results

Any Prior Established Goals:

New CC Standard:	
Main Concepts and Applications	New Skills and Procedures
Prior related concepts	Required Skills
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Desired Vocabulary Understanding:	Essential questions
<u> </u>	
Probable Misconceptions:	

Stage 2: Evidence – Learning and Assessment Activities

Evidence to show students und	erstand	
Performance Task(s):		MATH PRACTICES USED: MP1 MP2
Practices:		MP3 MP4
		MP5 MP6
Criteria for Success [Competen	Criteria for Success [Competency]:	
Evidence needed to determine	Desired Results?	
Daily Observation:	Formal Assessments:	
E-tickets:	Informal Assessments:	
Project(s):	miormai Assessments.	
Group:	Checks for Understanding:	
Timed and type of feedbacks involve		
Timed and type of feedbacks involve		
Timed and type of feedbacks involve Writing components incorporated in	d for above:	
	d for above:	
	d for above:	
	d for above:	
Writing components incorporated in Student Self-Assessment	d for above: complishment of learning?	
Writing components incorporated in Student Self-Assessment How will the student know own ac	d for above: complishment of learning?	

Stage 3 – Learning Plan Agenda

	Order Of Process	Hook. Exploration. Connection. Relevance.
er	Below can vary	1 look. Exploration. Confidential. Relevance.
*Day 1: Remember	Intro	
ne	Interest	
Ser	Brain Storm	
	Retrieve	
\ \	Recognize Recall	
Da	Procedure	
*	Check	
	Specify	
0	Explain	
:: a	Summarize Predict	
Strat	Data	
Day 2: Understand	Estimate	
	Models	
	Procedure Check	
	CHOOK	
<u>ā</u>	Use of knowledge	
Αp	Show reasoning	
က	Conjecture Relate	
Day 3:Apply	Conduct	
Ze	Gather Evaluate	
Day Analyze	Project	
Day	Reorganize	
1.4	il	
	Focus	
): ate	Justify Provide	
Day 5: valuate	Prove	
Da		
Ш	Convince	
	Synthesize	
Day 6: Create	Generate	
Day	Formulate Develop	
	Develop Design	
-		BACKWARD DESIGNED FORMATIVE ASSESSMENT OF DESIRED
Day 7: Assess		RESULTS
Day Asse		
ץ ב		

^{:/} POST: Reflection. Continue to next standard, or Re-Teach with new approach.

^{* &}quot;Day 1", "Day 2", etc.- Lesson Progression will vary according to school schedule and student learning goals.