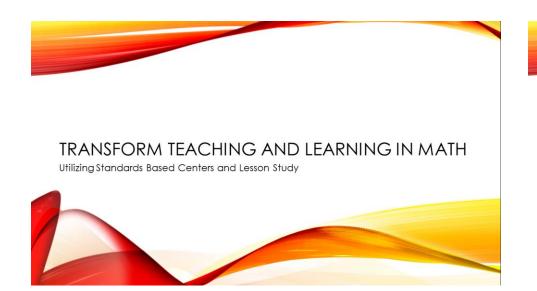
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# SO... WHY FOCUS ON INSTRUCTION?

Imagine creating and supporting a cultivating environment that would give teachers the opportunity to engage in reflective practice to ensure that they were providers of engaging mathematics that fostered learning and understanding.

# SO... WHY CENTERS AND LESSON-STUDY?

#### Math Centers:

- Encourage students' independence and increases enthusiasm for learning by giving students opportunities to make choices, work together, and talk about math.
- Students are more likely to explore different approaches to problem solving, and to question, take risks, explain things to each other, and have their ideas challenged.
- Centers help bring math content to life through fun activities.

#### Lesson Study:

- Provides a process for teachers to collaborate and make sense of educational goals.
- Allows teachers to observe and collect immediate data on student knowledge, understanding, and interest
- Targets academic development and identifies factors that affect student motivation to learn.
- Places teachers in the role of researcher and encourages improvement in their instructional practice.

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CCSS: 3.NBT.1- Use place value understanding to round whole numbers to the nearest 10 or 100

	Examples:	Write your Objective Here:
Who?		
	SWBAT	I will use place value understanding to round
	I will	whole numbers to the nearest 10 or 100
S Is doing the learning?		using:
-~~	What is to be taught (the standard).	
What?		<ul> <li>A number lines, place value drawings,</li> </ul>
( Wildt: )	Use place values understanding to round	or a hundreds chart
	whole numbers to the nearest 10 or 100	<ul> <li>The basic principles of rounding</li> </ul>
Are they required to do?		
	What manipulatives/strategies/materials	
/ How? \	will be used?	
	A number line, place value drawings, a	
o Marilla Landa (12)	hundreds chart, basic principles of rounding	
Will they do it?		
	What final task will you have students	Write your Demonstration of Learning (Ex.
(What's the	complete to assess what was taught?	Exit Ticket) Here:
degree of		
understanding	Students will estimate a set of numbers to	Estimate the five following numbers to the
	the nearest 10 or 100.	nearest 10 or 100 using the principles of
How will it be assessed?		rounding, a number line, or place value
		drawing.
		75, 94, 189, 254, 472, 602

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CCSS:	

	1 .	
	Examples:	Write your Objective Here:
Who? \		
	SWBAT	
	I will	
S Is doing the learning?		
$\sim$	What is to be taught (the standard).	
What?		
Are they required to do?		
~~	What manipulatives/strategies/materials	
LI L	will be used?	
( How? )		
Will they do it?		
will they do it:		
	What final task will you have students	Write your Demonstration of Learning (Ex.
Add at the state of the state o	-	Exit Ticket) Here:
What's the	complete to assess what was taught?	Exit ficket) here:
degree of		
understanding )		
How will it be assessed?		



How?

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What are students required to do (Key points of the standard):

Use place values understanding to round whole numbers to the nearest 10 or 100

Will they do it? **1**<sup>st</sup> **Floor- Recall**- remember, recognize, identify **2**<sup>nd</sup> **Floor-Use**-understand, classify, compare, explain analyze **3**<sup>rd</sup> **Floor-Create**-evaluate, test, construct, judge

Class time	Activity	What misconceptions might exist?
Whole Group (10-15 minutes opening of class):	Human number line- Number 120, 130, 140, 150, 132, 134, 138, 137, 135, 131 Which number are you closest to? Introduce 100, 200 repeat previous	Understanding number order, distance away from a number, tens, hundreds. Which number is used to round
	steps.	
Small Group: (10-15 minutes per Center)		
Center/Activity 1: Teacher	Algorithm for rounding	Understanding which place value is used when rounding to the lower number.
Center/Activity 2: Technology	Soccer Math-Rounding to the nearest 10 and 100	Identifying place value
Center/Activity 3:Skill	Rounding worksheet/activity for 10's and 100's What's the Nearest Ten?	If 99 is rolled will students round to 100?
Center/Activity 4: Tactile/Game	Pumpkin Bump	Place value- rounding to 10 or hundreds place
Individual Assessment (10 minutes):	Round five of the numbers to the nearest 10 or 100 using the principles of rounding, a number line, or place value drawing. 75, 94, 189, 254, 472, 602	Which strategy is best to use.

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How?

What are students required to do (Key points of the standard):			

Will they do it? **1**<sup>st</sup> **Floor- Recall**- remember, recognize, identify **2**<sup>nd</sup> **Floor-Use**-understand, classify, compare, explain analyze **3**<sup>rd</sup> **Floor-Create**-evaluate, test, construct, judge

Class time	Activity	What misconceptions might exist?
Whole Group (10-15 minutes opening of class):		
Small Group:		
Center/Activity 1:		
Center/Activity 2:		
Center/Activity 3:		
Center/Activity 4:		
Individual Assessment (10 minutes):		



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What are students required to do (Key points of the standard):	

What's the degree of understanding?

What quality of questions should I ask? **1**<sup>st</sup> **Floor- Recall**-remember, recognize, identify **2**<sup>nd</sup> **Floor-Use**-understand, classify, compare, explain analyze **3**<sup>rd</sup> **Floor-Create**-evaluate, test, construct, judge

Activity	Misconceptions	Questions
Whole Group (10-15 minutes opening of class):		
Small Group:		
Center/Activity 1:		
Center/Activity 2:		
Center/Activity 3:		
Center 4:		
Individual (10-15 minutes):		

# Model Classroom Observation Recording Form

Teacher Name:		Grade:	_
Date:		CCSS:	
Lesson objective:			
Activity	Observation	Notes	
Mini-Lesson Focus :			
Center 1 Name:			
Center 2 Name:			
Center 3 Name:			
Center 4 Name:			
Formative Assessment:			
Other comments/questions for teacher:			

Elementary Math Website for Plainfield Public Schools

Locate: Elementary Math Shared CCSS Lesson/Center Instruction Lesson Format/PD presentations

Totale Tienenan, Tienenan Grande Good Total	, , ,
Standard:	Objective:
I. Do Nows (for samples click here) Pre-requisite skills necessary for the less	on
II. Open Lesson (10 to 15 minutes)	
My Math powerpoint (select appropriate slide Learnzillion	es)
III. Centers (10 minutes per center)	
1. My Math journal pages with teacher	
2. Technology Center Arcademics Sheppardsoftware Mathchimp Splashmath	
3. Tactile/Game Station K-5mathteachingresources Mathwire Learn-with-math-games	
4. Skill center Superteacherworksheets Commoncoresheets Mathworksheetsland Mathchimp Mathfactcafe	
5. Reinforcement/Enrichment Center	
IV. Formative Assessment (5 minutes)	

- 1. Use My Math closure
- 2. Use Howard county site
- 3. For other samples click here