Adapted from works by S. Beers and J. Carr and EngageNY

Shift #1 Mathematics: Focus					
					Common Core Shift
Teachers significantly narrow and deepen the scope of how time and energy is spent in the math classroom. They do so in order to	Students are:  • Using instructional resources that tie directly to the CCSS.	Not Evident	Little Evidence	Some Evidence	Evident
ocus deeply on only the concepts that are prioritized in the standards.	Working at a pace that matches their levels of proficiency, not a pacing chart.	Not Evident	Little Evidence	Some Evidence	Evident
Students develop a strong foundational knowledge and deep conceptual understanding and are able to transfer mathematical skills and understanding across concepts and grades.					

Shift #2 Mathematics:					
Coherence					
Common Core Shift	Implementation Indicator	Classroom Observation			
Standards are taught and assessed in ways that carefully connect the learning within and across grades so that students build new	Students are:  • Building on their prior knowledge and skills (during instruction and assessment).	Not Little Some Evident Evidence Evident			
understanding onto foundations built in previous years.  Teachers use understanding of	Receiving scaffolds to support their learning.	Not Little Some Evident Evidence Evident			
learning progressions presented from grade to grade in the CCSS to monitor students' progress, to provide scaffolding to support student learning, and to go deeper in understanding the concepts, where appropriate	Going deep in exploring and understanding mathematical concepts.	Not Little Some Evident Evidence Evident			

Shift #3 Mathematics:				
Fluency				
Common Core Shift	Implementation Indicator	Classroom Observation		
In major topics, students pursue the following three aspects of mathematics with equal intensity:	Students are:  □ Pursuing conceptual understanding □ Pursuing procedural skill and fluency	Not Little Some Evident Evidence Evidence Evident		
<ol> <li>Conceptual understanding,</li> <li>Procedural skill &amp; fluency,</li> <li>Application</li> </ol>	Efficient and accurate in performing foundational, computational procedures without referring to tables and other aids.	Not Little Some Evident Evidence Evidence Evident		
Students engage in authentic, real-life practice of skills and make use of those skills through extended application of concepts.	Applying a variety of appropriate procedures flexibly as they solve problems.	Not Little Some Evident Evidence Evidence Evident		
	Engaging in authentic, real-life practice of skills.	Not Little Some Evident Evidence Evidence Evident		
	Studying algorithms as "general procedures" so they can gain insight to the structure of mathematics (e.g., organization, patterns, predictability).	Not Little Some Evident Evidence Evident		
	Using technology (such as calculators) judiciously in ways that do not conflict with development of fluency.	Not Little Some Evident Evidence Evidence Evident		

Common Core Shift	Implementation Indicator	Classroom Observation			
Teachers teach more than "how to get an answer" and instead support students' ability to access	Students are:  □ Pursuing conceptual understanding □ Pursuing procedural skill and fluency	Not Evident	Little Evidence	Some Evidence	Evident
concepts from a number of perspectives so that students are able to see math as more than a set of mnemonics or discrete	Having time to "make sense" of math lessons.	Not Evident	Little Evidence	Some Evidence	Evident
procedures.  Deep conceptual understanding of core content at each grade is	Justifying why a particular math statement is true or where a mathematical rule comes from.	Not Evident	Little Evidence	Some Evidence	Evident
critical for student success in subsequent years. Students with conceptual understanding know more than isolated facts and	Writing and speaking about their understanding of mathematics content and procedures.	Not Evident	Little Evidence	Some Evidence	Evident
methods – they understand why a mathematical idea is important and the contexts in which it is useful.	Using precise and accurate mathematics, academic language, terminology, and concrete or abstract representations (e.g., pictures, symbols, expressions, equations, graphics, models).	Not Evident	Little Evidence	Some Evidence	Evident
	Engaging in extended application of concepts.	Not Evident	Little Evidence	Some Evidence	Evident

Shift #5 Mathematics:					
Applications (Modeling)					
Common Core Shift	Implementation Indicator	Classroom Observation			
Students are expected to use math and choose the appropriate concept for application even when they are not prompted to do so.	<ul> <li>Students are:</li> <li>Choosing the appropriate concept or procedure to solve a problem or analyze a situation without being prompted which to use.</li> </ul>	Not Little Some Evident Evidence Evident			
Teachers at all grade levels identify opportunities for students to apply math concepts in "real world" situations.	Practicing and receiving feedback before engaging in independent practice.	Not Little Some Evident Evidence Evident			
Teachers in content areas outside of math, particularly science, ensure that students are using math – at all grade levels – to	<ul> <li>Representing the problem situation and their solution symbolically, graphically, and/or pictorially (may include technological tools) appropriate to the context of the problem.</li> </ul>	Not Little Some Evident Evidence Evident			
make meaning of and access content.	<ul> <li>Identifying variables, computing and interpreting results, reporting on findings, and justifying the reasonableness of their results and procedures within context of the task.</li> </ul>	Not Little Some Evident Evidence Evident			

Shift #6 Mathematics: Balanced Emphasis (Dual Intensity)					
Common Core Shift	Implementation Indicator	Classroom Observation			
Students need to both practice and understand mathematics. It is more than just a balance between	Students are:  • Having time to "make sense" of math lessons.	Not Little Some Evident Evidence Evident			
these two priorities – both are occurring with intensity. Teachers create opportunities for students to participate in authentic practice and make use of those skills through extended application of math concepts.	Writing and speaking about their understanding of mathematics content and procedures.	Not Little Some Evident Evidence Evident			
	Engaging in debriefing discussion following exploration of tasks and reflecting on their thinking processes after task completion.	Not Little Some Evident Evidence Evident			
	Engaging in authentic, real-life practice of skills.	Not Little Some Evident Evidence Evident			